

# Service Manual

**PIONEER**  
The Art of Entertainment

● KE-2700SDK



ORDER NO.  
**CRT1325**

CASSETTE CAR STEREO WITH FM/MW ELECTRONIC TUNER

# KE-2700SDK

WG

# KE-2700B

IT

# KE-1700SDK

WG

# KE-1700B

IT

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

# KE-2730B

EW

# KE-1730B

EW

## Note:

- See the separate manual CX-197(CRT1328) for the cassette mechanism description.

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## SAFETY INFORMATION

### WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

### ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning. Batterierne må kun udskiftes med batterier af samme type og mærke.

### VARNING

Explosionsfara vid felaktigt batteri-byte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier. Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

## 1. SPECIFICATIONS

### General

|  |                                     |
|--|-------------------------------------|
| Power source .....                     | 14.4 V DC (10.8 — 15.6 V allowable) |
| Grounding system .....                 | Negative type                       |
| Max. current consumption               |                                     |
| (KE-2700SDK, KE-2730B, KE-2700B) ..... | 2.5 A                               |
| (KE-1700SDK, KE-1730B, KE-1700B) ..... | 1.8 A                               |
| Dimensions (chassis) .....             | 180(W) × 50(H) × 141(D) mm          |
| (front face) .....                     | 188(W) × 58(H) × 16(D) mm           |
| Weight .....                           | 1.3 kg                              |

### Amplifier

|  |                                |
|--|--------------------------------|
| Maximum power output                           |                                |
| (KE-2700SDK, KE-2730B, KE-2700B) ....          | 8.5 W × 2/7 W × 4 (EIAJ)       |
| (KE-1700SDK, KE-1730B, KE-1700B) .....         | 8.5 W × 2 (EIAJ)               |
| Continuous power output                        |                                |
| (KE-2700SDK, KE-2730B, KE-2700B) .....         | 4.5 W × 2/3.5 W × 4            |
| (1% dist. at 1 kHz)                            |                                |
| (KE-1700SDK, KE-1730B, KE-1700B) .....         | 4.5 W × 2                      |
| (1% dist. at 1 kHz)                            |                                |
| Load impedance                                 |                                |
| (KE-2700SDK, KE-2730B, KE-2700B) .....         | 4 Ω (4 — 8 Ω allowable)        |
| (KE-1700SDK, KE-1730B, KE-1700B) .....         | 4 Ω (2 — 8 Ω allowable)        |
| Tone controls (KE-2700SDK, KE-2730B, KE-2700B) |                                |
| (bass) .....                                   | ±10 dB (100 Hz)                |
| (treble) .....                                 | ±10 dB (10 kHz)                |
| Loudness contour .....                         | +8 dB (100 Hz), +4 dB (10 kHz) |
| (volume: -30 dB)                               |                                |

### Tape player

|                                |   |
|--------------------------------|---|
| Tape .....                     | Compact cassette tape (C-30 — C-90)         |
| Tape speed .....               | 4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.) |
| Fast forward/rewind time ..... | Approx. 100 sec. for C-60                   |
| Wow & flutter .....            | 0.13% (WRMS)                                |
| Frequency response .....       | 50 — 14,000 Hz (±3 dB)                      |
| Stereo separation .....        | 45 dB                                       |
| Signal-to-noise ratio .....    | 52 dB (IEC-A network)                       |

### FM tuner

|                                  |  |
|----------------------------------|--|
| Frequency range .....            | 87.5 — 108 MHz                         |
| Usable sensitivity .....         | 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB) |
| 50 dB quieting sensitivity ..... | 16 dBf (1.7 μV/75 Ω, mono)             |
| Signal-to-noise ratio .....      | 70 dB (IEC-A network)                  |
| Distortion .....                 | 0.3% (at 65 dBf, 1 kHz, stereo)        |
| Frequency response .....         | 30 — 15,000 Hz (±3 dB)                 |
| Stereo separation .....          | 40 dB (at 65 dBf, 1 kHz)               |

### MW tuner

|                          |                            |
|--------------------------|----------------------------|
| Frequency range .....    | 531 — 1,602 kHz            |
| Usable sensitivity ..... | 18 μV (25 dB) (S/N: 20 dB) |
| Selectivity .....        | 50 dB (±9 kHz)             |

### LW tuner (KE-2730B, KE-1730B)

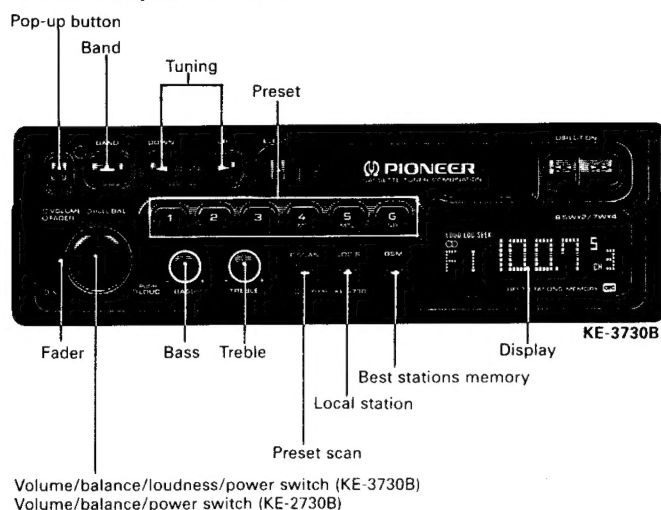
|                          |                            |
|--------------------------|----------------------------|
| Frequency range .....    | 153 — 281 kHz              |
| Usable sensitivity ..... | 30 μV (30 dB) (S/N: 20 dB) |
| Selectivity .....        | 50 dB (±9 kHz)             |

### Note:

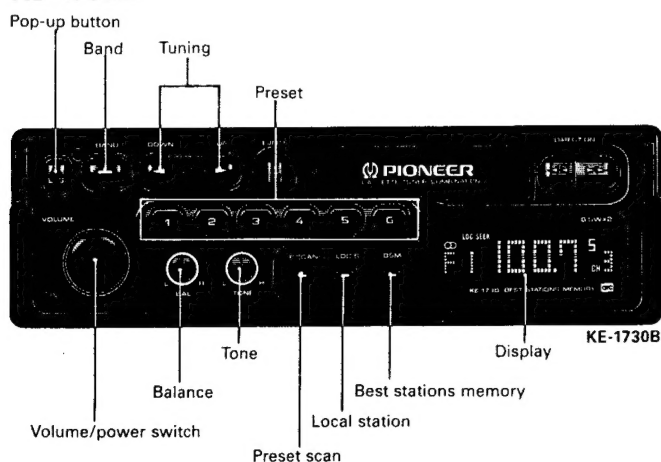
Specifications and the design are subject to possible modification without notice due to improvements.

## 2. USING THE RADIO

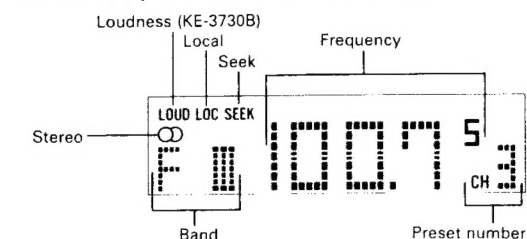
### KE-3730B, KE-2730B



### KE-1730B



### KE-3730B, KE-2730B, KE-1730B



#### • Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- 1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
- 2. Press the band switch to select the band.
- Switching between FM and MW/LW is controlled by the band switch. Switching between LW and MW is accomplished using the tuning button. The MW band is from 531 kHz to 1,602 kHz, and the LW band is from 153 kHz to 281 kHz.
- 3. Press both ends of tuning button and the seek tuning indicator will appear on the display.
- 4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)

#### KE-2730B

- 5. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

#### KE-1730B

- 5. Adjust the volume and balance.
  - 6. Adjust the tone.
  - To enter a frequency into the preset memory...
  - 7. Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six MW and LW frequencies can be entered.

#### • Best Stations Memory Button

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by ——— flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while ——— is flashing on the display.

#### • Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for MW and LW. Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for MW/LW). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

## ● Fader Control (KE-2730B)

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers. With 2-speaker systems, set this control to a horizontal position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

## ● Auto-Loudness (KE-2730B, KE-1730B)

When playing back a tape or listening to the radio at low volume, the low and high tones are automatically emphasized.

## Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button. FM frequencies change in 50 kHz steps while those in the MW and LW bands change in 9 kHz steps.

## Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned in sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

## Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

## Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps, LW frequencies change in 1 kHz steps, and MW frequencies change in 9 kHz steps.

1. Press both ends of tuning button and the seek tuning indicator will disappear from the display.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

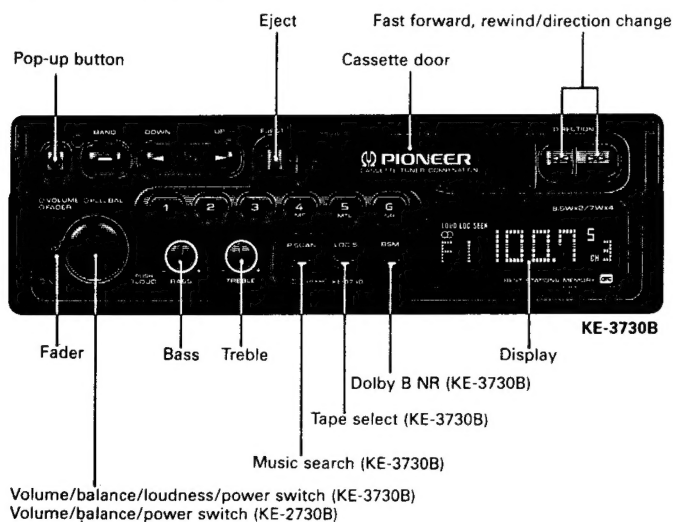
## ● Pop-up button

When the quickrelease handle is on the bottom, push the button to move it up slightly. Push it when you remove the unit from the dashboard.

The button works only when the handle lock is released.

## 3. USING THE TAPE DECK

### KE-3730B, KE-2730B





### ● Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- 1. Turning the power switch to the right causes power to switch ON.
- 2. Loading a cassette tape into the load slot causes playback to begin automatically.

#### KE-2730B

- 3. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

#### KE-1730B

- 3. Adjust the volume and balance.
- 4. Adjust the tone.
- 5. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, press the eject button.
- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

### ● Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

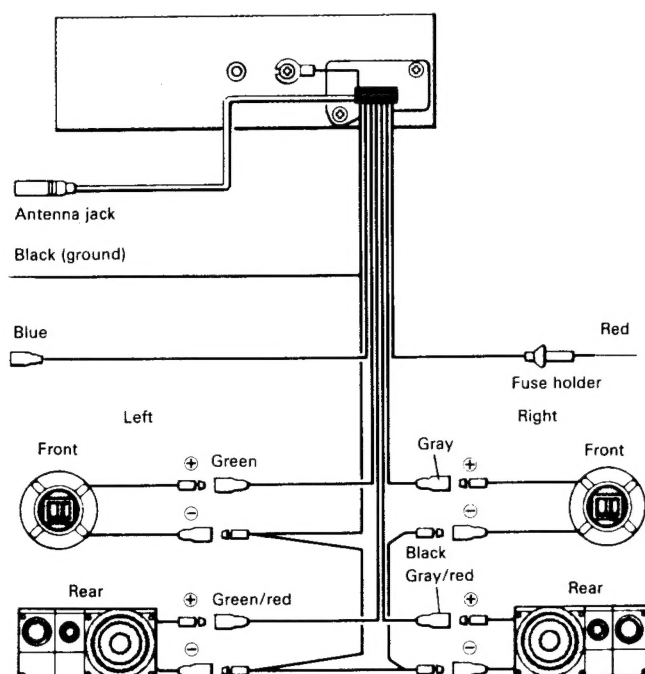
### ● Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

## 4. CONNECTIONS

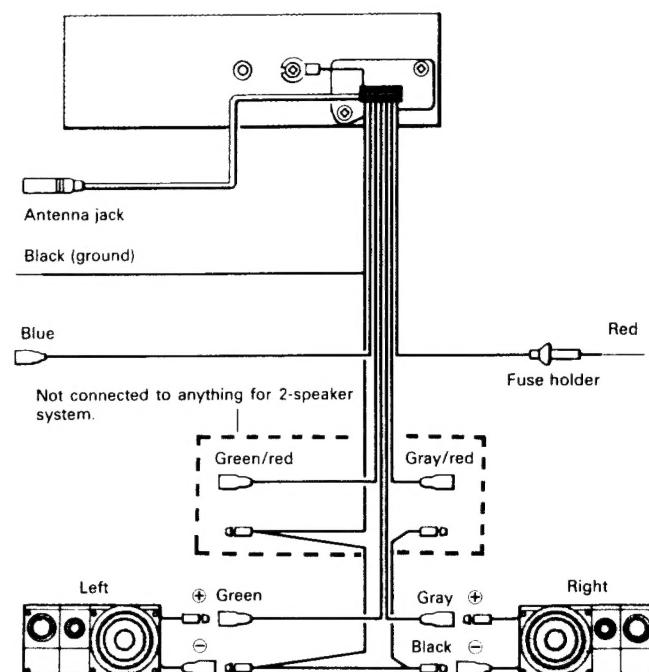
KE-2700SDK, KE-2730B, KE-2700B

### 4-speaker system

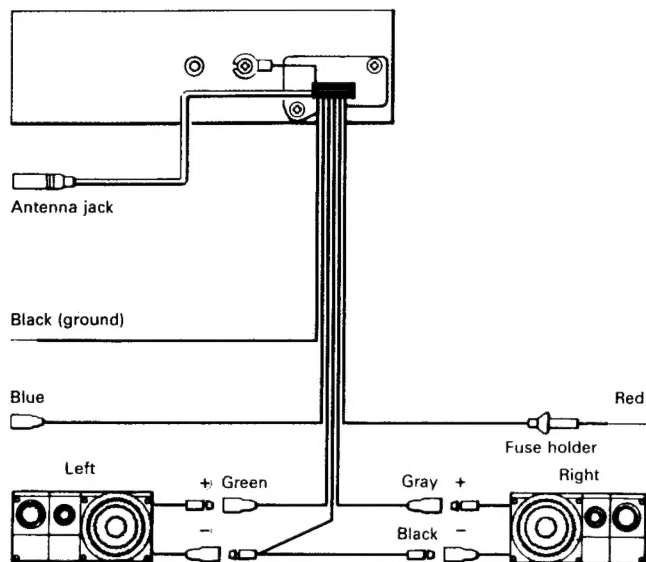


KE-2700SDK, KE-2730B, KE-2700B

### 2-speaker system



## KE-1700SDK, KE-1730B, KE-1700B



### Note:

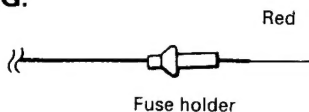
- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace the fuse only with the type stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.

|                       |  |
|-----------------------|--|
| <b>Black (ground)</b> | To vehicle (metal) body.   |
| <b>Blue</b>           | To auto-antenna power terminal (Max. 300 mA 12 V DC).                |
| <b>Red</b>            | To electric terminal controlled by ignition switch (12 V DC) ON/OFF. |

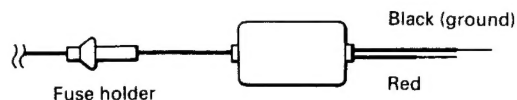
## ERRATUM (KE-2700SDK, KE-1700SDK)

There is a mistake in the "Connections" section in the Owner's Manual. The red lead in the illustration should be changed as follows:

### WRONG:



### RIGHT:



|                       |  |
|-----------------------|--|
| <b>Black (ground)</b> | To vehicle (metal) body.   |
| <b>Red</b>            | To electric terminal controlled by ignition switch (12 V DC) ON/OFF. |

### • CAUTION

It is very dangerous to short the red and black leads together. Before connecting the leads, read the "Connections" section in the Owner's manual, and connect the leads carefully.

## 5. DISASSEMBLY

### ● Removing the Case

1. Insert and turn a screwdriver to remove the case.
2. Raise the case to remove.

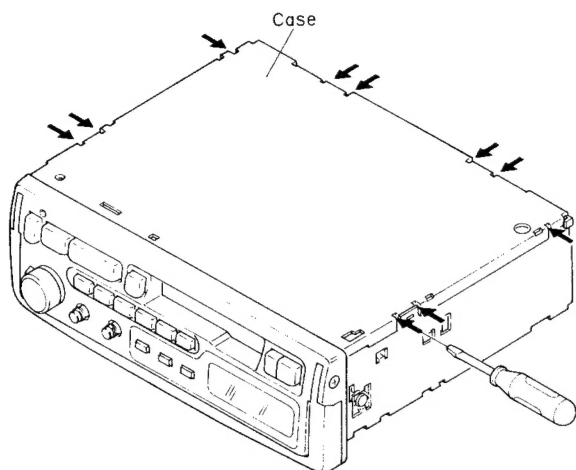


Fig. 1

### ● Removing the Handle

1. Remove the two screws, and then remove the handle.

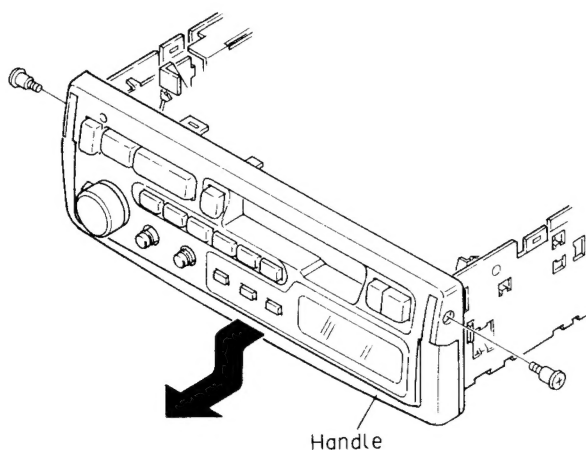


Fig. 2

### ● Removing the Grille Assy

1. Remove the two knobs.  
(KE-2700SDK, KE-2730B, KE-2700B)
2. Remove the knob.  
(KE-1700SDK, KE-1730B, KE-1700B)
3. Press the tabs at four locations, and then pull out the grille assy.

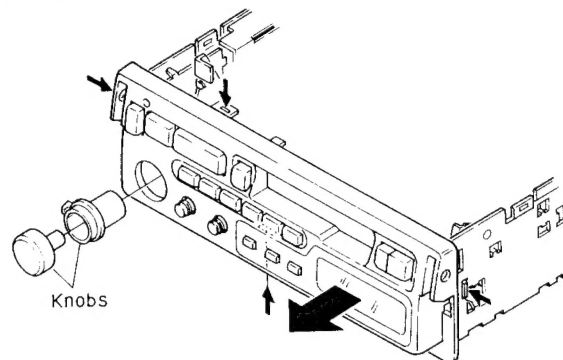


Fig. 3

### ● Removing the Cassette Mechanism Assy

1. Disconnect the connector.
2. Remove the four screws A and four screws B.
3. Remove the cassette mechanism assy.

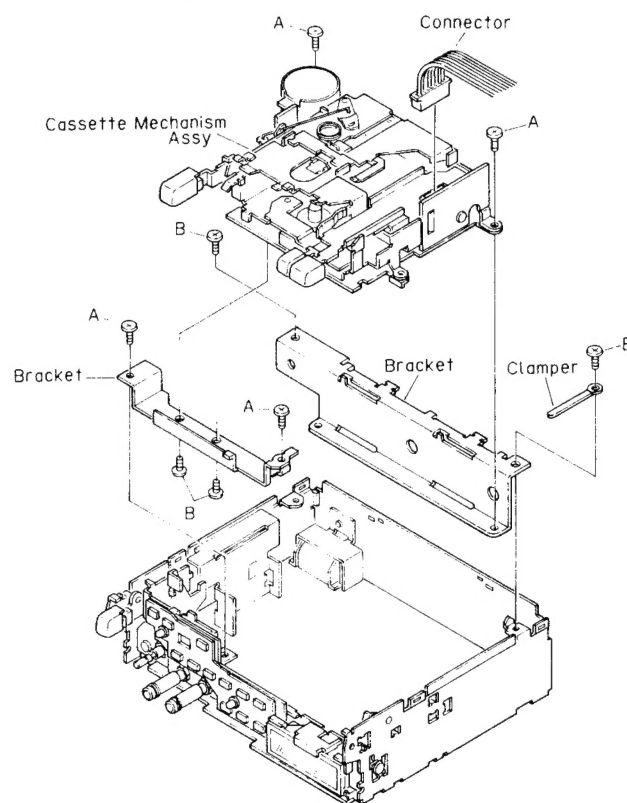


Fig. 4

- **Removing the SDK P.C. board  
(KE-2700SDK, KE-1700SDK)**

1. Pull out the SDK P.C. board.

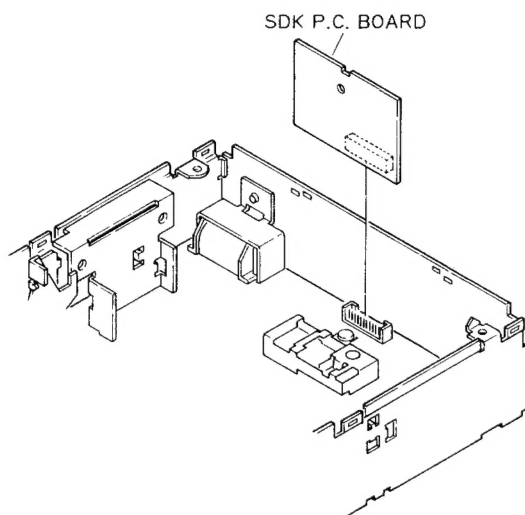


Fig. 5

- **Removing the Tuner Amp Unit**

1. Remove the four screws C.
2. Raise up on tuner amp unit to remove it from the chassis unit.

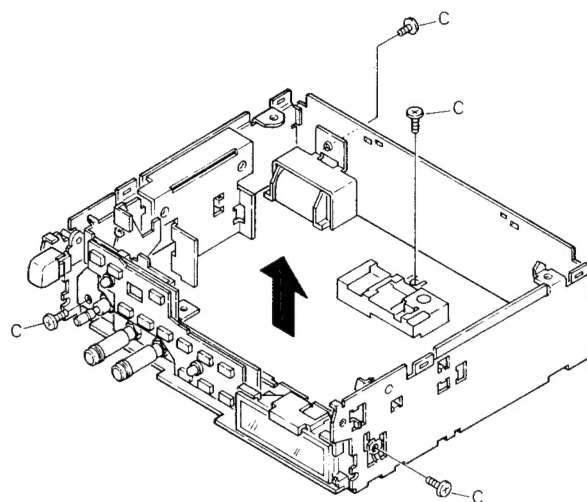


Fig. 6

## 6. BLOCK DIAGRAM

• KE-2700B

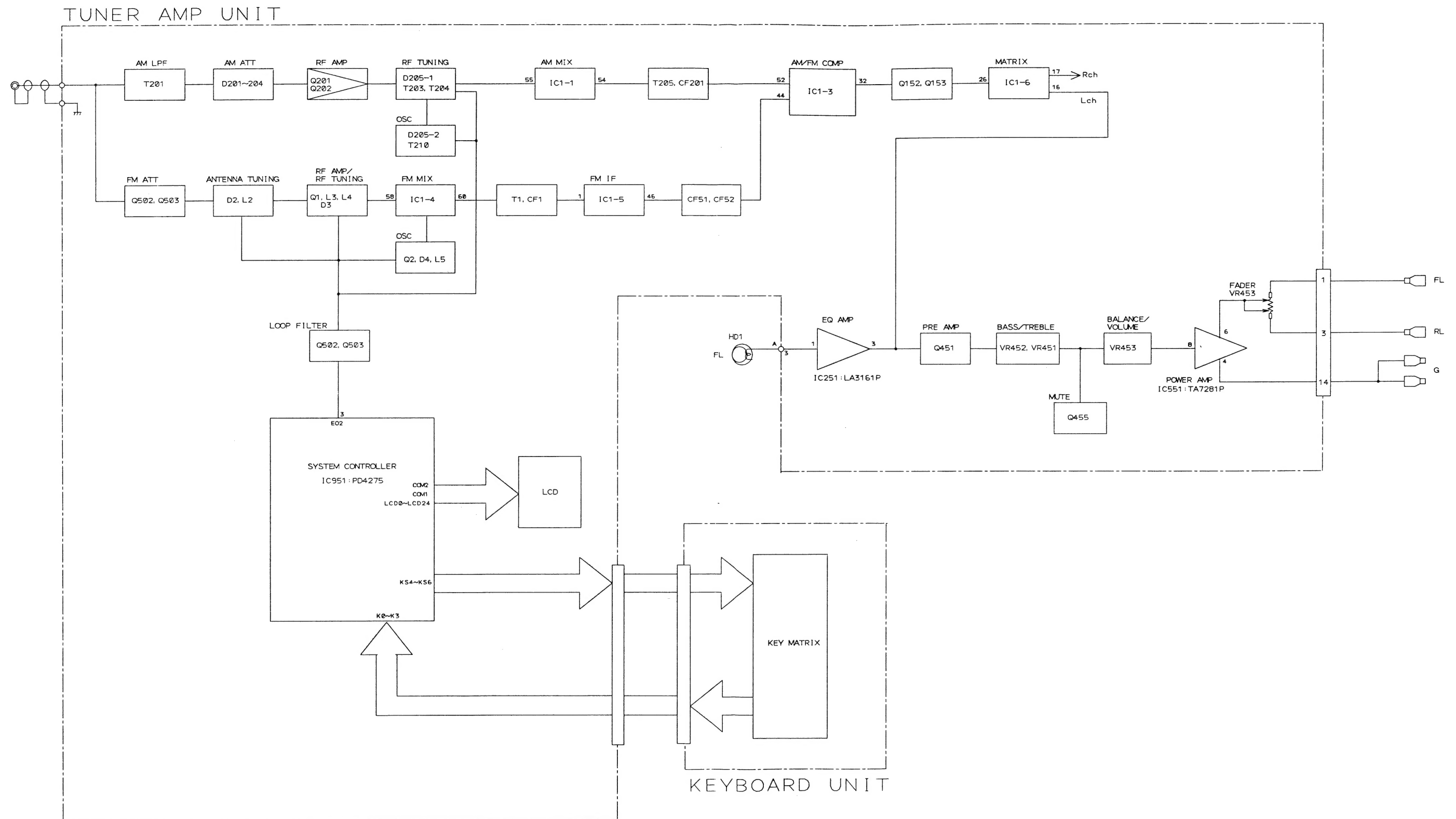


Fig. 7

7. ADJUSTMENT

● Connection Diagram

NOTICE:  
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.  
Z: Output impedance of SSG.

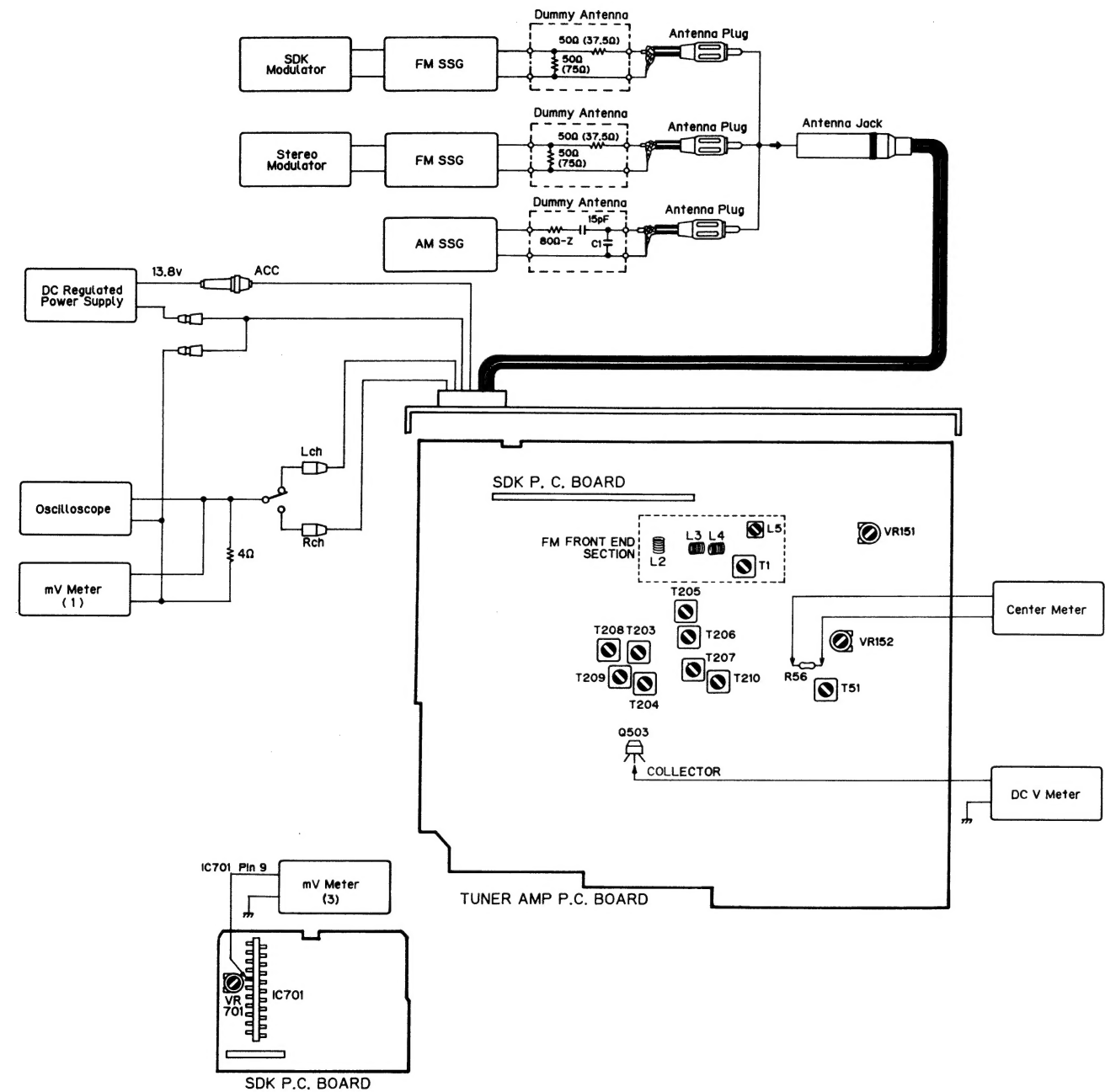


Fig. 8

FM ADJUSTMENT

※ 1 Stereo MOD. : Pilot=10%  
※ 2 Stereo MOD. : 1kHz, L+R=90% , Pilot=10%

|              | No. | FM SSG (400Hz, 100%) |             | Displayed Frequency (MHz) | Adjusting Point | Adjustment Method (Switch Position)   |
|--------------|-----|----------------------|-------------|---------------------------|-----------------|---------------------------------------|
|              |     | Frequency (MHz)      | Level (dBf) |                           |                 |                                       |
| Tuning Volt  | 1   | —                    | —           | 108.0                     | L5              | DC V Meter:7.0V                       |
| Tracking     | 1   | 98.1                 | 15          | 98.1                      | L2, L4          | mV Meter (1):Maximum                  |
|              | 2   | 98.1                 | 15          | 98.1                      | T1              | mV Meter (1):Maximum                  |
| IF           | 1   | 98.1<br>Unmodulated  | 65          | 98.1                      | T51             | Center Meter:0                        |
| Pilot Cancel | 1   | 98.1※ 1              | 65          | 98.1                      | VR151           | mV Meter (1):Minimum (MPX Filter:OFF) |
| ARC          | 1   | 98.1※ 2              | 40          | 98.1                      | VR152           | mV Meter (1):Separation 5dB           |

AM ADJUSTMENT

(KE-2700SDK, KE-2700B, KE-1700SDK, KE-1700B)

|             | No. | AM SSG (400Hz, 30% ) |              | Displayed Frequency (kHz) | Adjusting Point     | Adjustment Method (Switch Position) |
|-------------|-----|----------------------|--------------|---------------------------|---------------------|-------------------------------------|
|             |     | Frequency (kHz)      | Level (dBμV) |                           |                     |                                     |
| Tuning Volt | 1   | —                    | —            | 530                       | T210                | DC V Meter:1.0V                     |
| Tracking    | 1   | 1,000                | 20           | 1,000                     | T203, 204, 205, 206 | mV Meter (1):Maximum                |



## MW/LW ADJUSTMENT (KE-2730B, KE-1730B)

|             | No. | AM SSG (400Hz, 30%) |                    | Displayed Frequency (kHz) | Adjusting Point     | Adjustment Method (Switch Position) |
|-------------|-----|---------------------|--------------------|---------------------------|---------------------|-------------------------------------|
|             |     | Frequency (kHz)     | Level (dB $\mu$ V) |                           |                     |                                     |
| Tuning Volt | 1   | —                   | —                  | 531                       | T210                | DC V Meter:1.0V                     |
|             | 2   | —                   | —                  | 153                       | T207                | DC V Meter:3.0V                     |
| Tracking    | 1   | 999                 | 20                 | 999                       | T203, 204, 205, 206 | mV Meter (1):Maximum                |
|             | 1   | 216                 | 20                 | 216                       | T208, 209           | mV Meter (1):Maximum                |

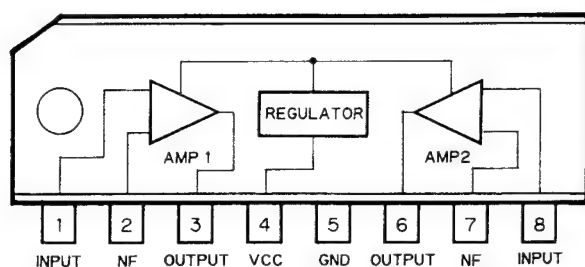
## SDK ADJUSTMENT (KE-2700SDK, KE-1700SDK)

※ 3 : SDK MOD. : SK (57kHz)=5%

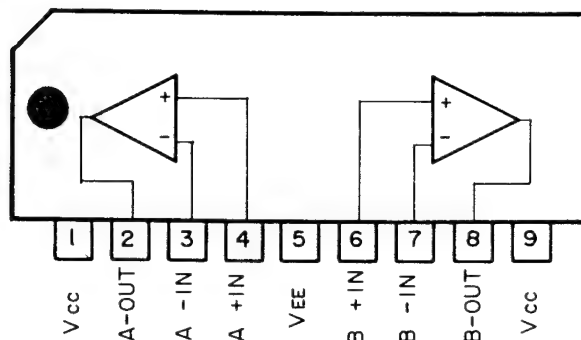
|  | No. | FM SSG (400Hz, 100%) |             | Displayed Frequency (MHz) | Adjusting Point | Adjustment Method (Switch Position) |
|--|-----|----------------------|-------------|---------------------------|-----------------|-------------------------------------|
|  |     | Frequency (MHz)      | Level (dBf) |                           |                 |                                     |
|  | 1   | 98.1※ 3              | 65          | 98.1                      | VR701           | mV Meter (3):Maximum                |

## • ICs

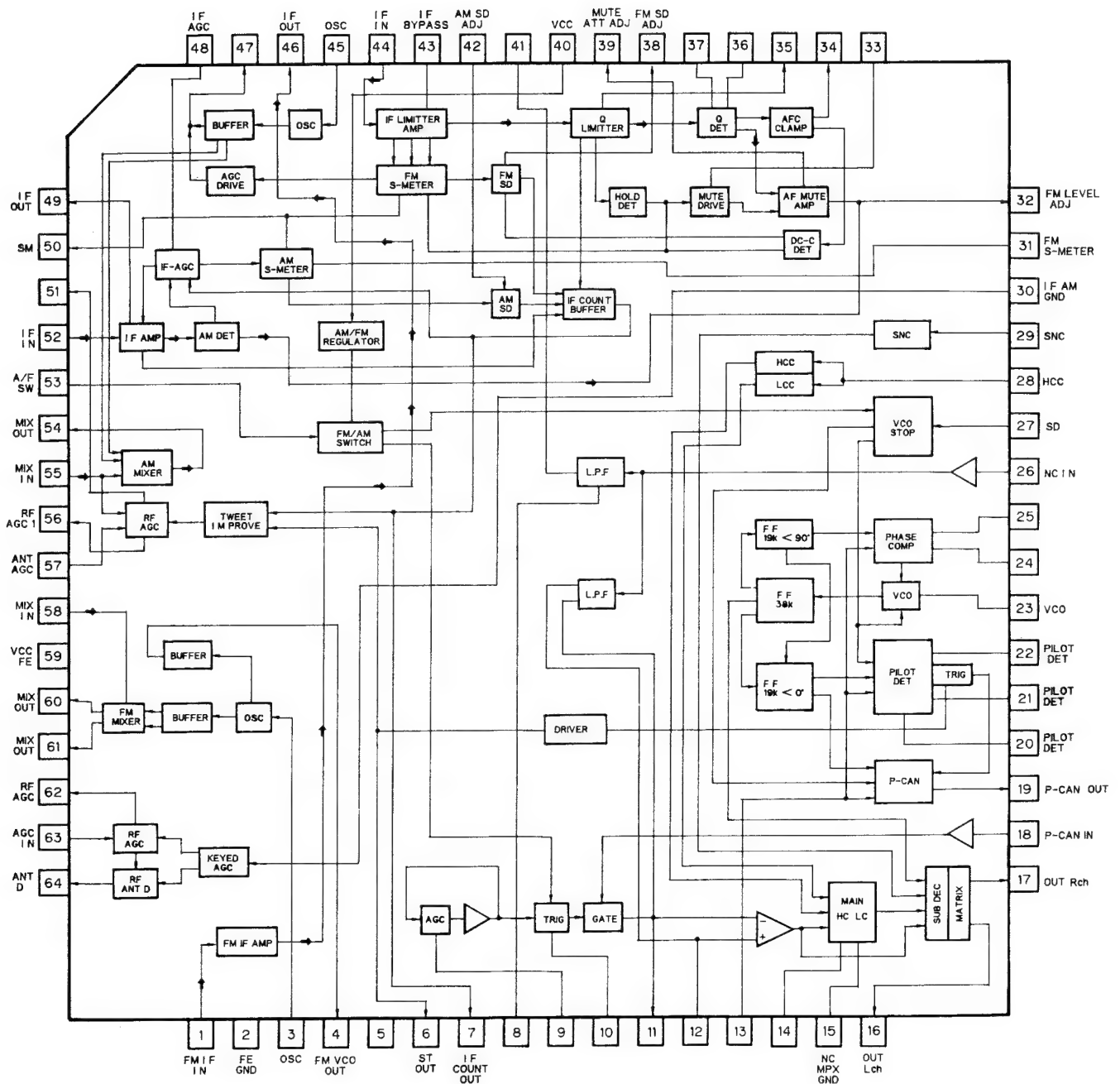
LA3161P



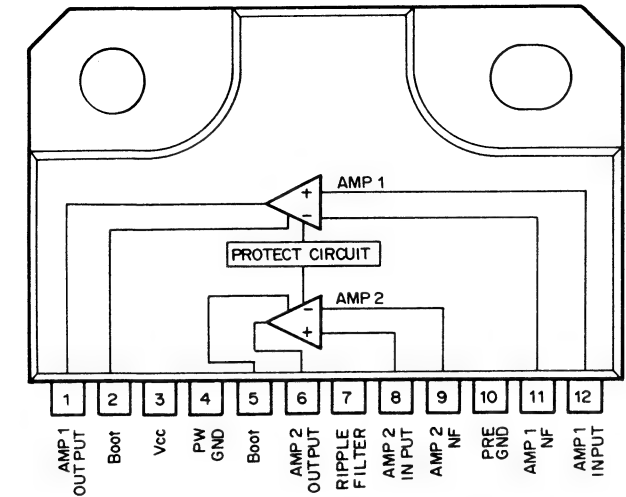
TA75558S



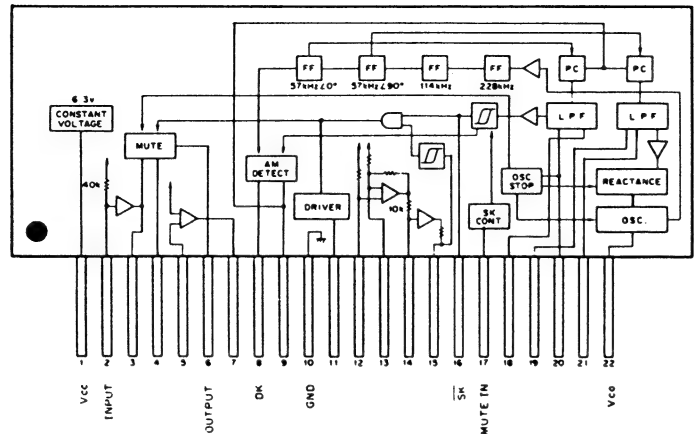
PAC001A



TA7281P  
TA 7281P

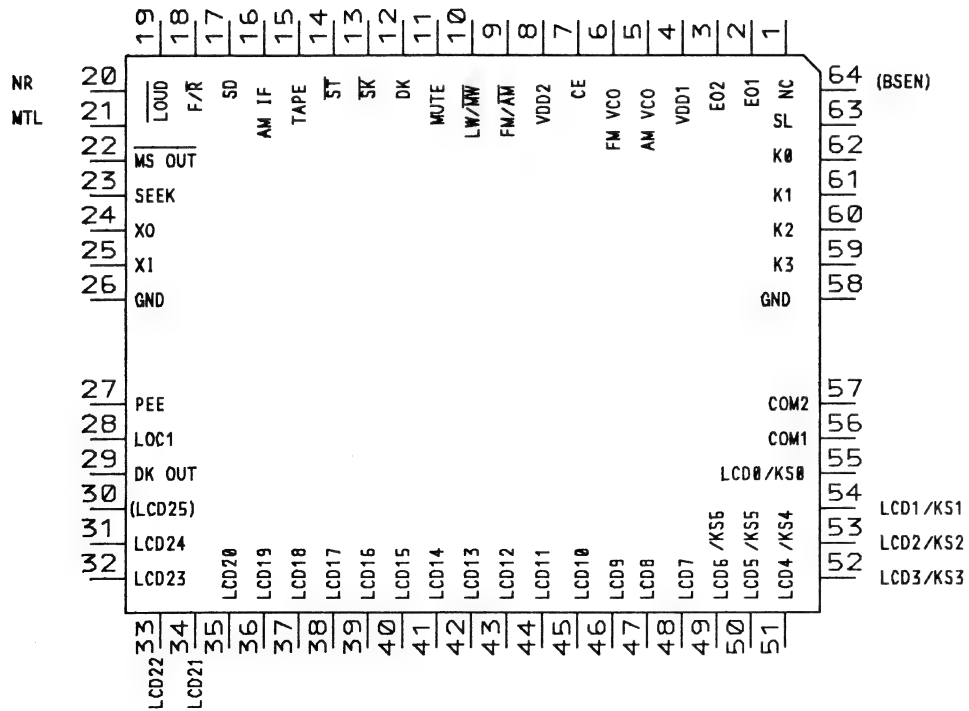


LA2220



\*PD4275

IC's marked by \* are MOS type.  
Be careful in handling them because they are very  
liable to be damaged by electrostatic induction.



• Pin Function (PD4275)

| Pin No. | Pin Name | I/O    | Output Format | Function and Operation   |
|---------|----------|--------|---------------|--|
| 1       | NC       |        | C             | Not used   |
| 2       | EO1      | Output | G(3)          | PLL error output pins  |
| 3       | EO2      |        |               |  |
| 4       | VDD1     |        |               | Device power supply pin  |
| 8       | VDD2     |        |               |  |
| 5       | VCOL     | Input  |               | AM local oscillator signal input pin   |
| 6       | VC0H     | Input  |               | FM local oscillator signal input pin   |
| 7       | CE       | Input  |               | Chip enable input pin  |
| 9       | FM/AM    | Output | C             | FM/AM band select pin "H":FM "L":AM  |
| 10      | LW       | Output | C             | Loop filter switching output pin "H":LW  |
| 11      | MUTE     | Output | C             | Mute output pin "H":ON   |
| 12      | DK       | INPUT  |               | SK signal input pin  |
| 13      | SK       | INPUT  |               | DK signal input pin  |
| 14      | ST       | Input  |               | Stereo broadcast detection signal input pin "L":Stereo indicator is displayed      |
| 15      | TAPE     | INPUT  |               | Tape power ON/OFF input pin "H":ON   |
| 16      | AMIF     | Input  |               | AM IF signal input pin   |
| 17      | SD       | Input  |               | FM SD input "H":During broadcast reception   |
| 18      | F/REV    | Input  |               | Tape motion signal input pin "H":Forward   |
| 19      | LOUD     | Input  |               | Loudness ON/OFF signal input pin "L":ON  |
| 20      | NR       | Output | C             | Dolby NR ON/OFF output pin "H":ON  |
| 21      | METAL    | Output | C             | Tape METAL ON/OFF output pin "L":ON  |
| 22      | MSOUT    | Output | C             | Tape MS ON/OFF output pin "L":ON   |
| 23      | SEEK     | Output | C             | "H" level:SEEK, BSM, BSA and PSCAN   |
| 24      | XO       | Output | C             | Quartz oscillator terminal   |
| 25      | XI       | Input  |               |  |
| 26      | GND      |        |               | GND terminal   |
| 27      | PEE      | Output | C             | Alarm output pin   |
| 28      | LOC1     | Output | C             | Halt sensitivity switching pin "L":DX SEEK(P. SCAN) "H":LOC SEEK                   |
| 29      | DKOUT    | Output | C             | Control by DK (terminal #12) input signal "H":DK input signal is detected as 125Hz |
| 30      | NC       |        |               | Not used   |

| Pin No. | P N |
|---------|-----|
| 31      | LCD |
| 55      | LCD |
| 48      | KS7 |
| 55      | KSO |
| 56      | COM |
| 57      | COM |
| 59      | K3  |
| 62      | KO  |
| 63      | SL  |
| 64      | NC  |

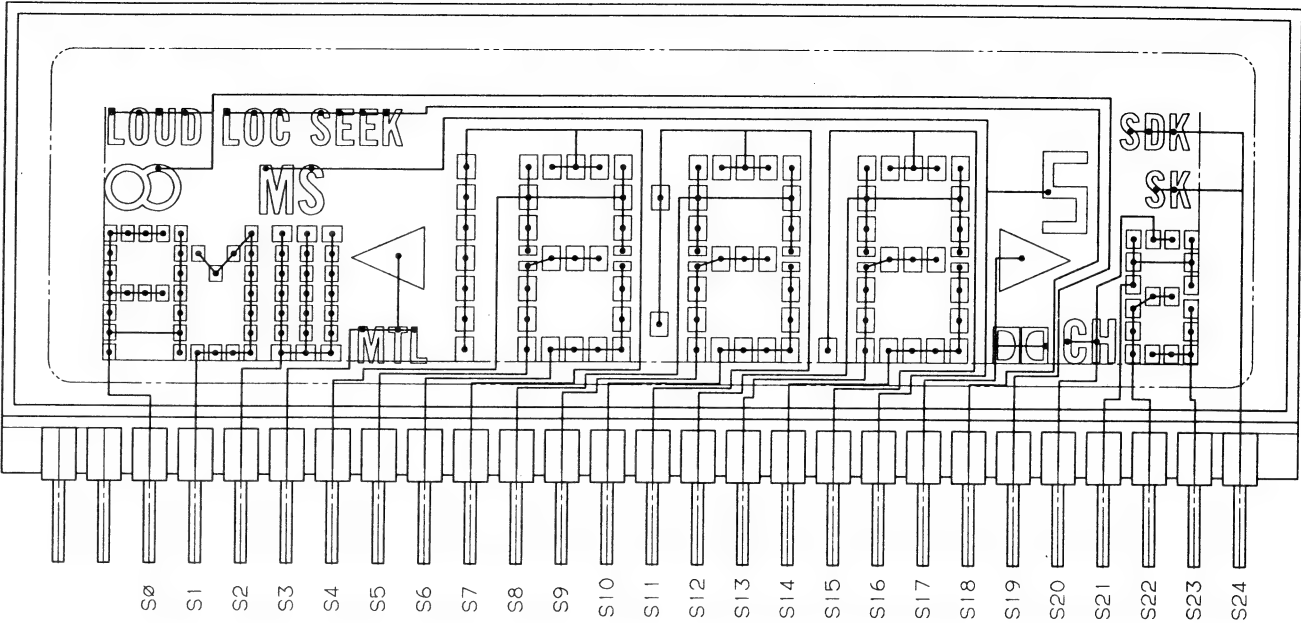
| Output |
|--------|
| C      |
| C      |

| Pin No.       | Pin Name           | I/O    | Output Format | Function and Operation            |
|---------------|--------------------|--------|---------------|-----------------------------------|
| 31<br> <br>55 | LCD24<br> <br>LCD0 | Output | C             | Segment signal output pins to LCD |
| 48<br> <br>55 | KS7<br> <br>KS0    | Output | C             | Key matrix strobe output pins     |
| 56<br>57      | COM1<br>COM2       | Output | C             | Common signal output pins to LCD  |
| 59<br> <br>62 | K3<br> <br>K0      | Input  |               | Key matrix return input pins      |
| 63            | SL                 | Input  |               | AM station level analog input pin |
| 64            | NC                 |        | C             | Not used                          |

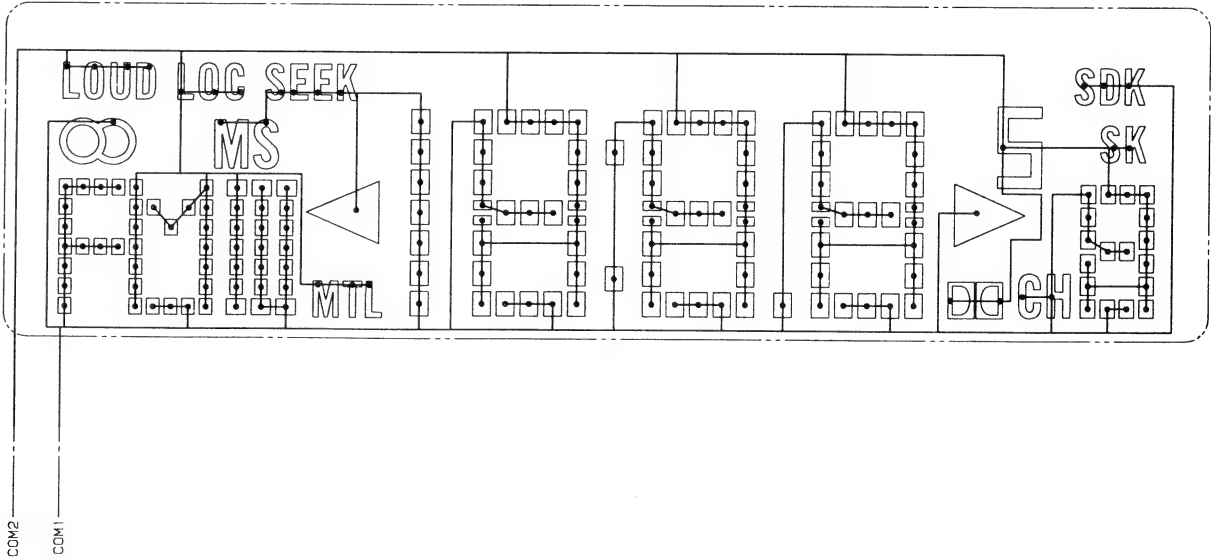
| Output format | Meaning         |
|---------------|-----------------|
| C             | C-MOS           |
| C(3)          | C-MOS (3 State) |

• LCD(CAW1097)

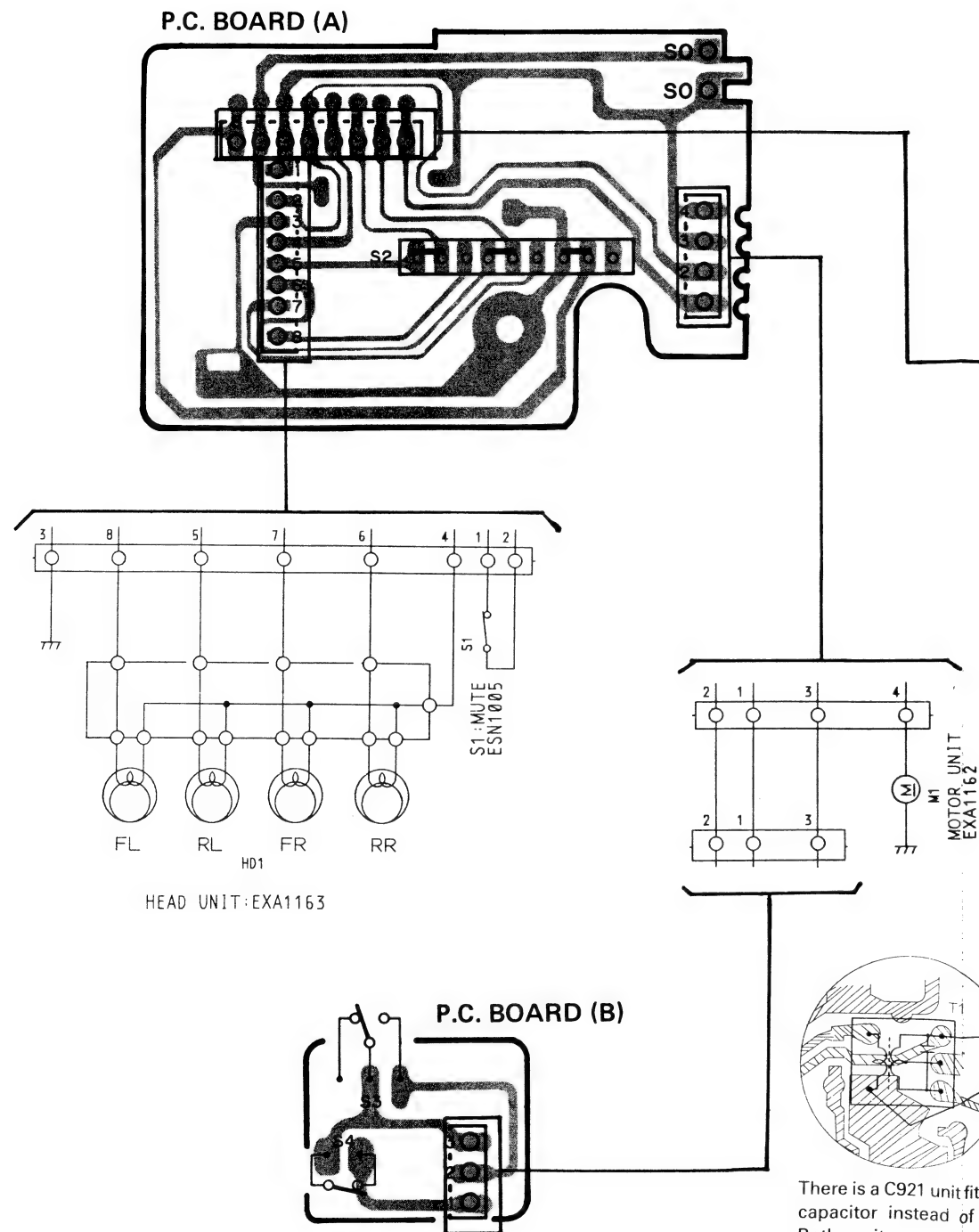
SEGMENT



COMMON

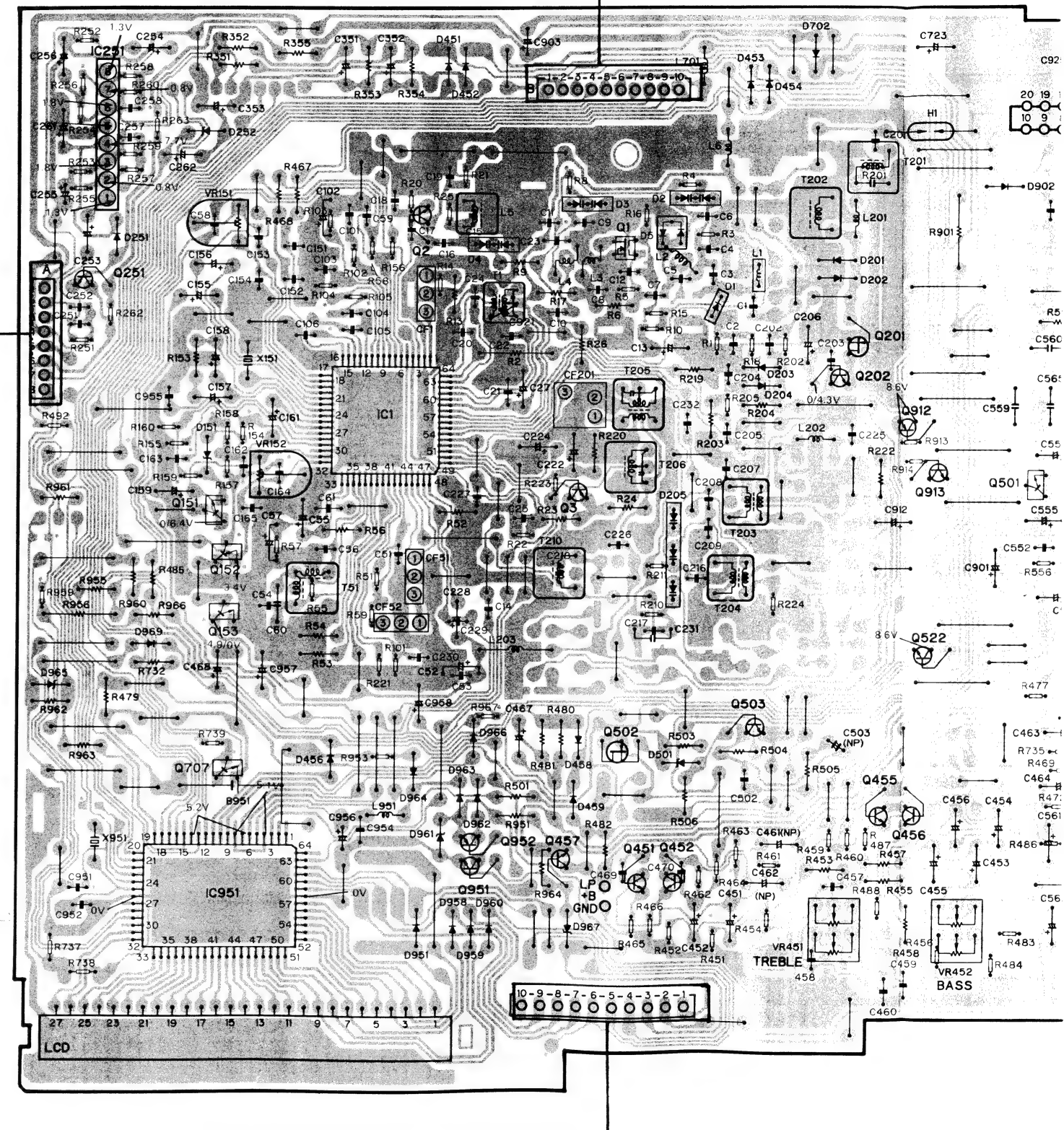


## 8. CONNECTION DIAGRAM (KE-2700SDK)

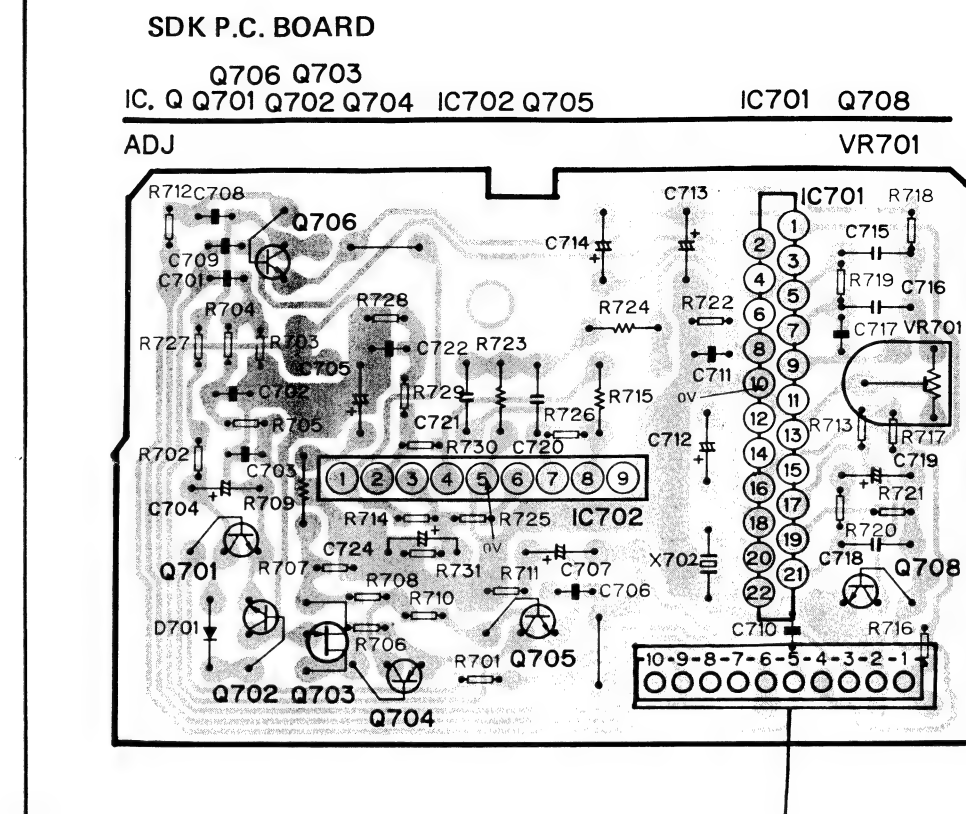
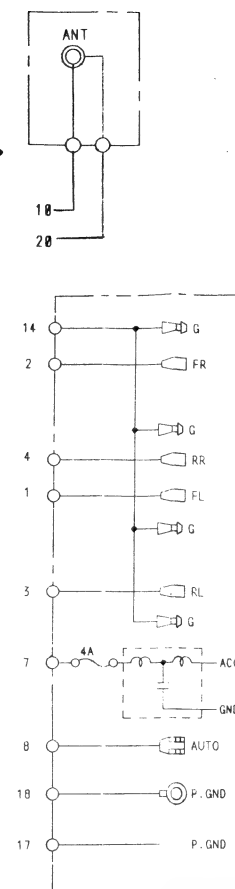
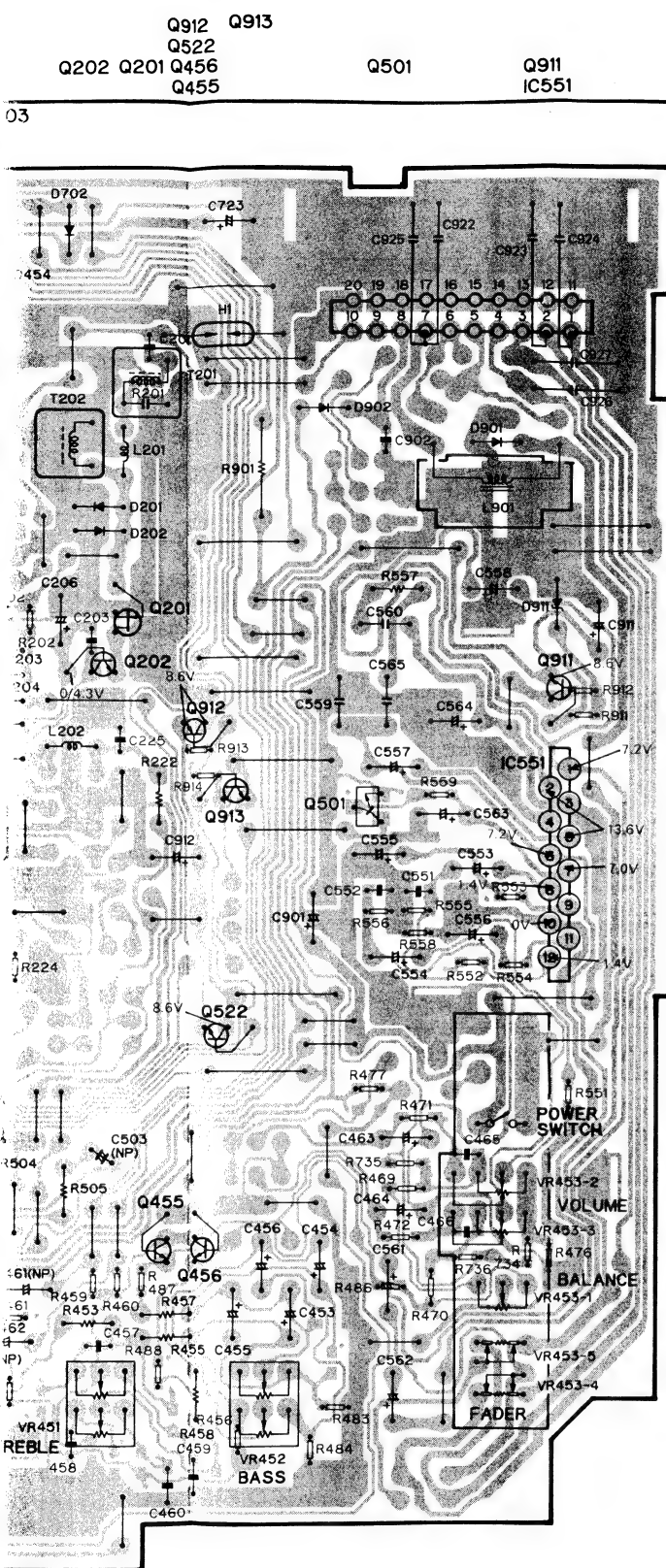


## TUNER AMP P.C. BOARD

| IC, Q | Q251  | Q151  | Q153  | Q952 | Q3  | Q1 | Q452 | Q522 | Q912 | Q913 | Q501 |
|-------|-------|-------|-------|------|-----|----|------|------|------|------|------|
| ADJ   | IC951 | IC501 | Q707  | Q152 | IC1 | Q2 | Q951 | Q457 | Q502 | Q451 | Q503 |
|       |       | VR151 | VR152 | T51  |     | L5 | T1   | L4   | T210 | T205 | L2   |
|       |       |       |       |      |     |    |      |      | T204 | T203 |      |
|       |       |       |       |      |     |    |      |      |      |      |      |







TUNER AMP P.C. BOARD:IC1

|           |           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b>  | <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>10</b> |
| 2.1V      | 0V        |           |           |           | 5.2V      |           | 2.9V      |           |           |
| <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> |
| 4.8V      | 4.8V      | 4.8V      | 2.8V      | 0V        | 2.3V      | 2.3V      | 4.7V      |           | 3.5V      |
| <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> |
| 3.5V      | 3.5V      | 3.8V      | 3.5V      | 3.5V      | 4.8V      |           | 0/4.1V    | 0/3.5V    | 0V        |
| <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> | <b>39</b> | <b>40</b> |
| 0/6.4V    | 3.4V      |           |           |           |           |           |           |           |           |
| <b>41</b> | <b>42</b> | <b>43</b> | <b>44</b> | <b>45</b> | <b>46</b> | <b>47</b> | <b>48</b> | <b>49</b> | <b>50</b> |
| 1.3V      |           |           | 2.4/0V    |           | 3.3/0V    | 4/5.2V    | 3.4/3.8V  | 8.7V      |           |
| <b>51</b> | <b>52</b> | <b>53</b> | <b>54</b> | <b>55</b> | <b>56</b> | <b>57</b> | <b>58</b> | <b>59</b> | <b>60</b> |
| 0.2V      | 0/6.9V    | 4.9/0V    | 8.7V      | 0/2.2V    | 0/4.3V    |           | 3.4/0V    | 8.6/0V    | 8.6/0V    |
| <b>61</b> | <b>62</b> | <b>63</b> | <b>64</b> |           |           |           |           |           |           |
| 8.6/0V    | 8.6/0V    |           |           |           |           |           |           |           |           |

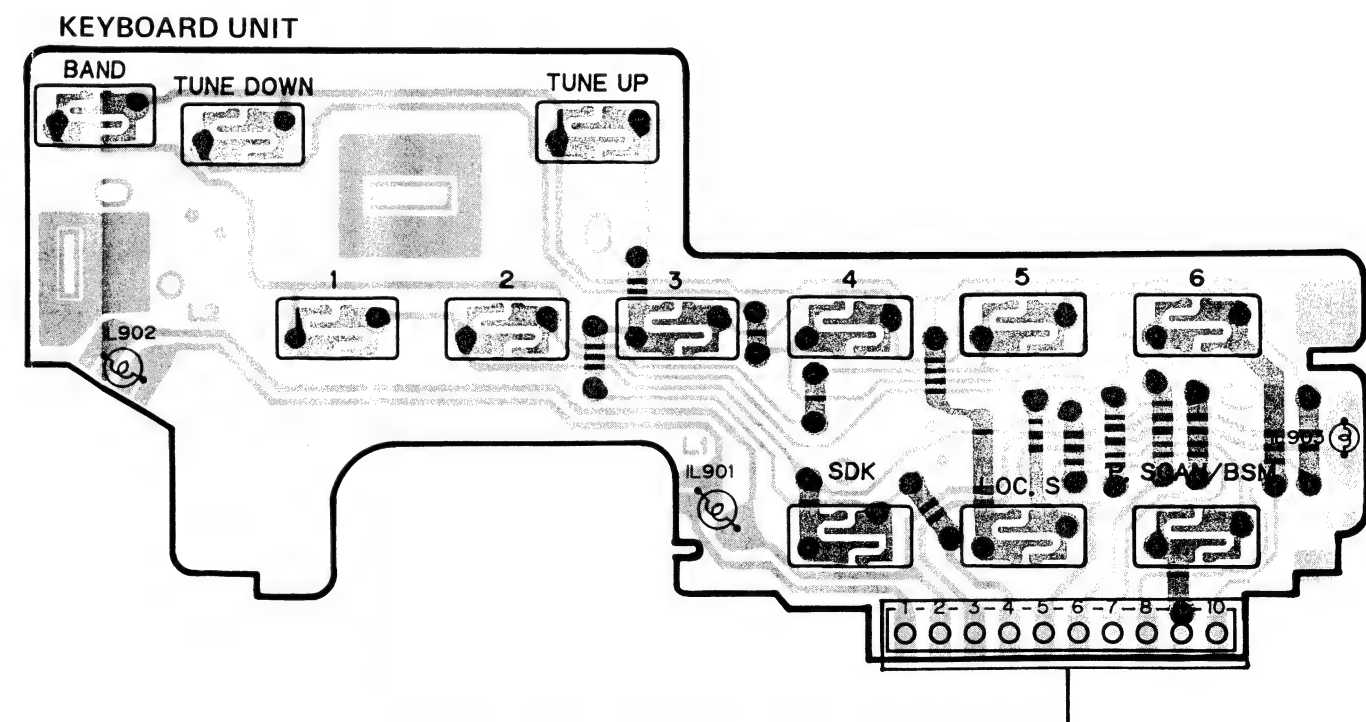
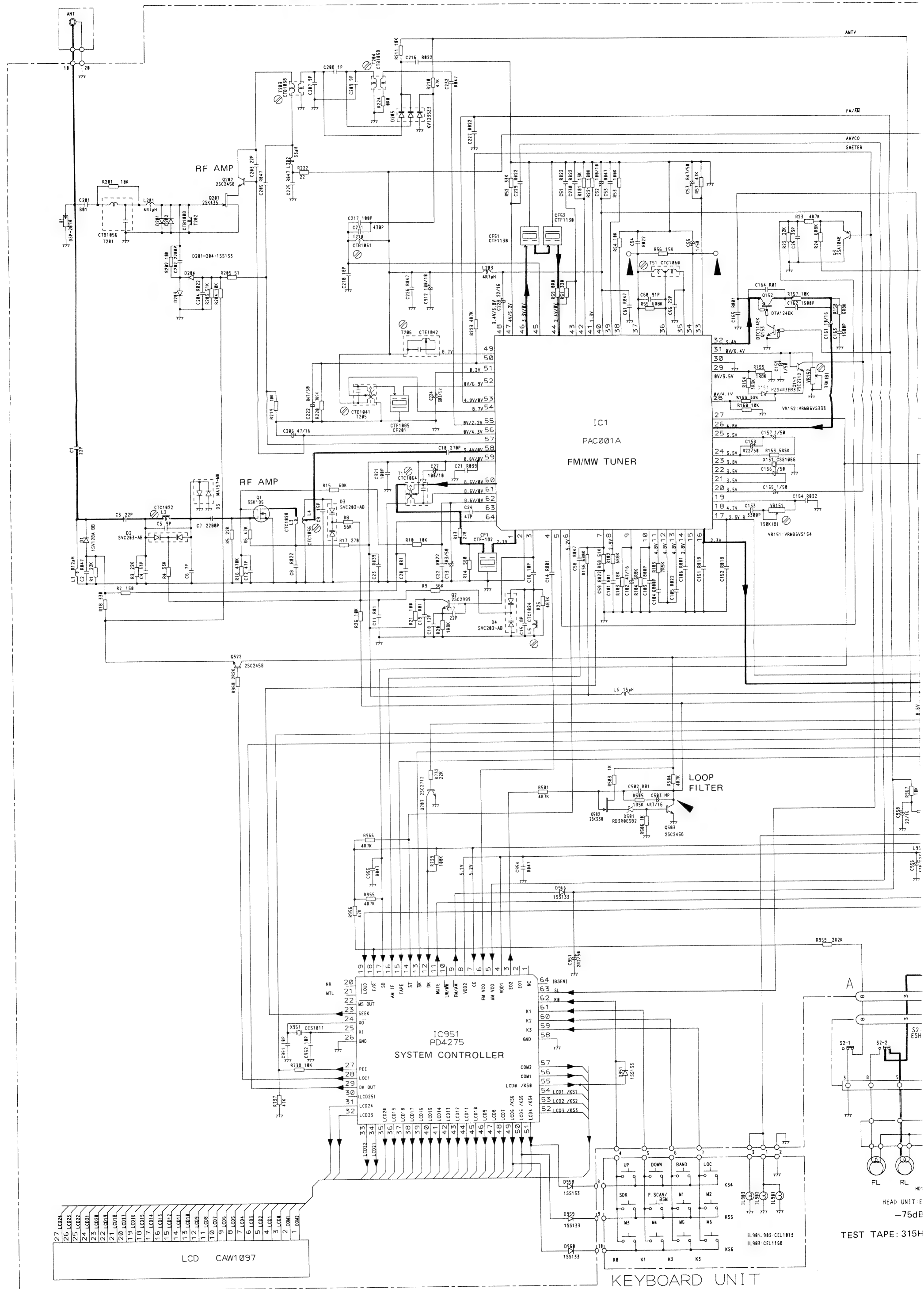


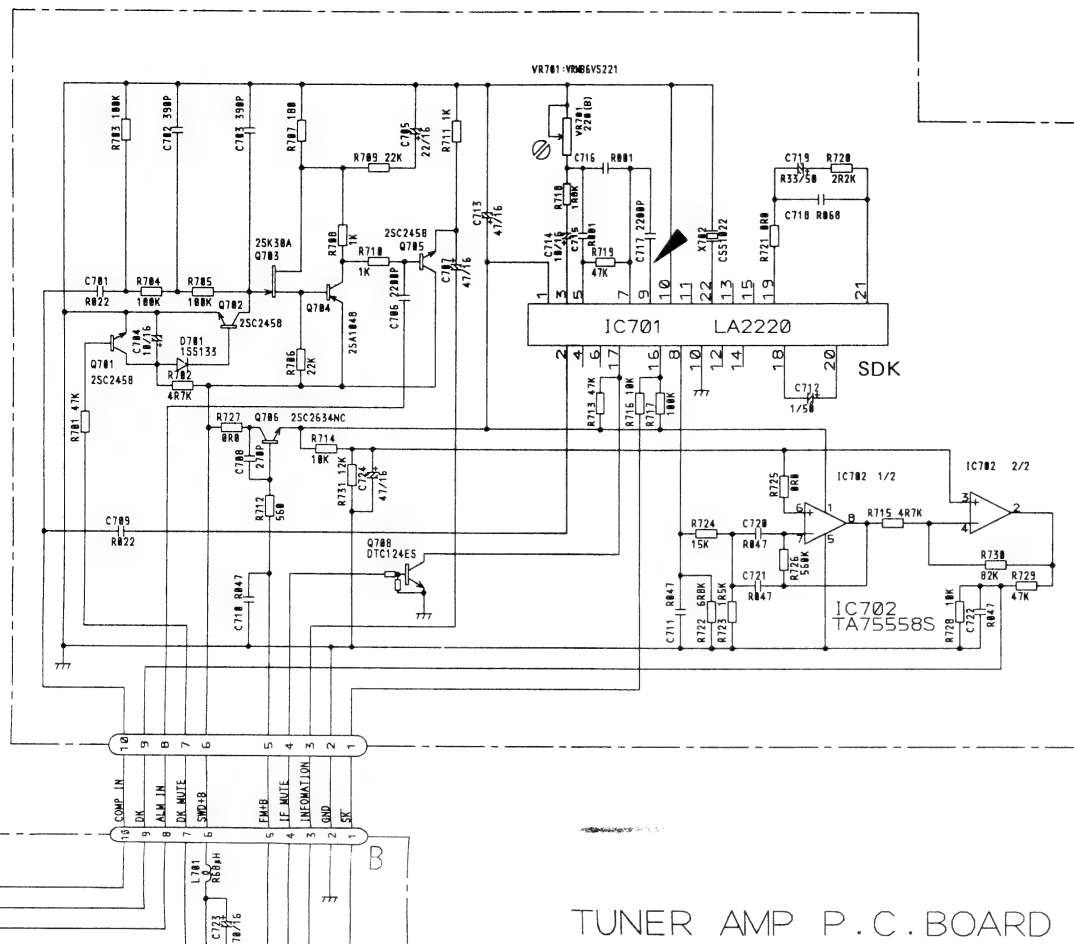
Fig. 9



## 9. SCHEMATIC CIRCUIT DIAGRAM (KE-2700SDK)



## SDK P.C. BOARD



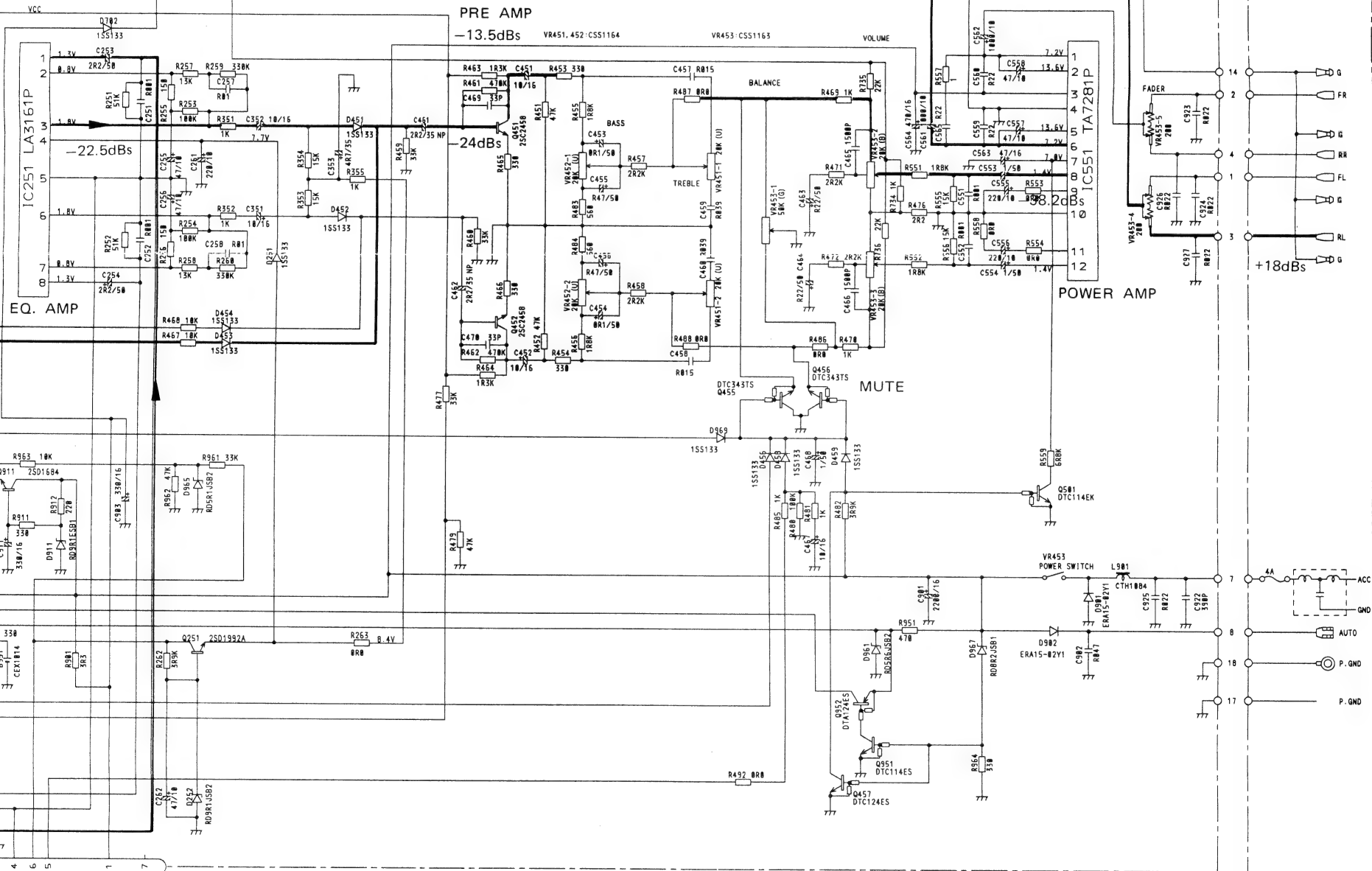
TUNER AMP UNIT  
Consists of  
● SDK P.C. BOARD  
● TUNER AMP P.C. BOARD

## NOTE:

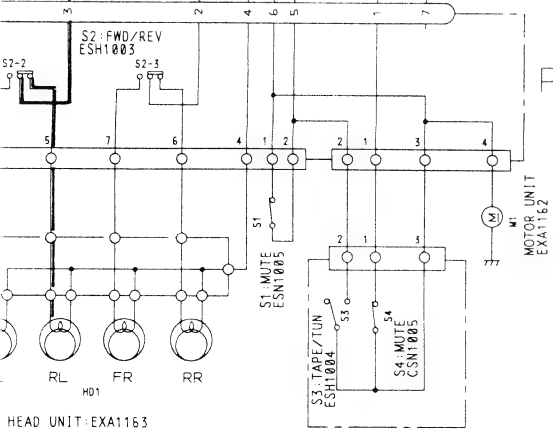
- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor  
and capacitor fixed values  
are expressed as:  
2.2→2R2  
0.022→R022

## TUNER AMP P.C. BOARD



## P.C. BOARD (A)



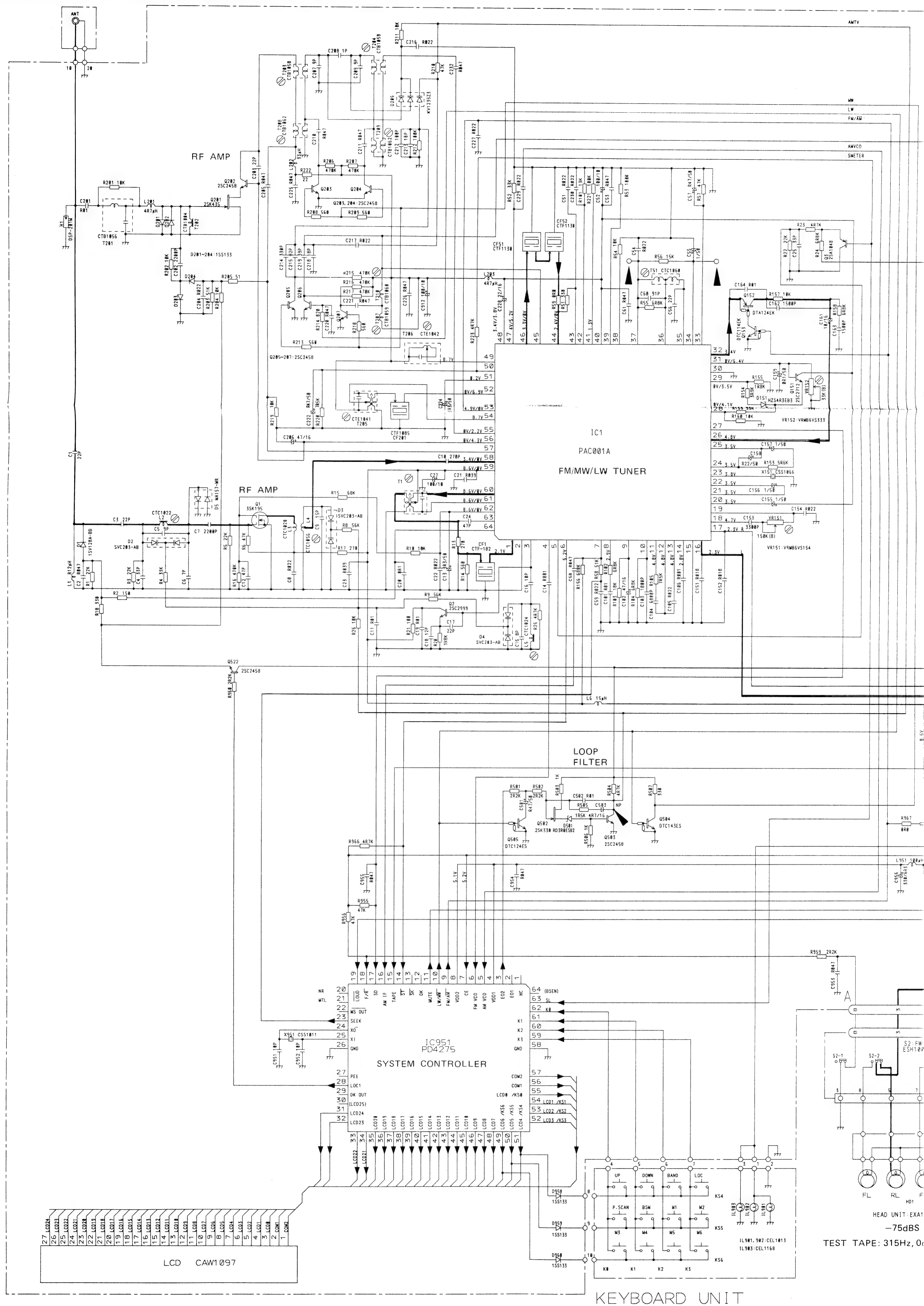
HEAD UNIT: EXA1163

-75dB

## P.C. BOARD (B)

APE: 315Hz, 0dB(160nwb/m)

## 10. SCHEMATIC CIRCUIT DIAGRAM (KE-2730B)



NOTE:

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2→2R2  
0.022→R022

TUNER AMP UNIT

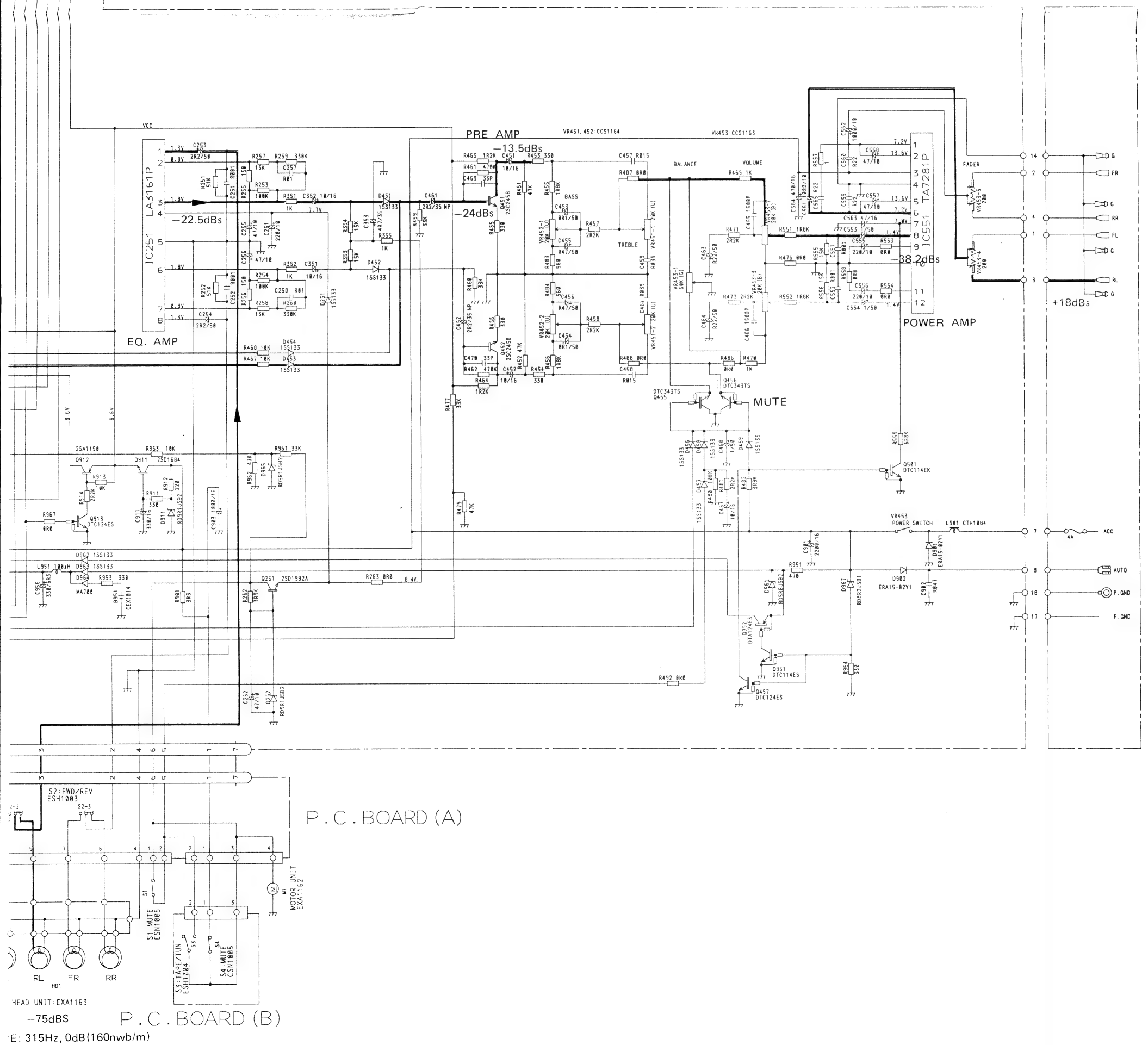
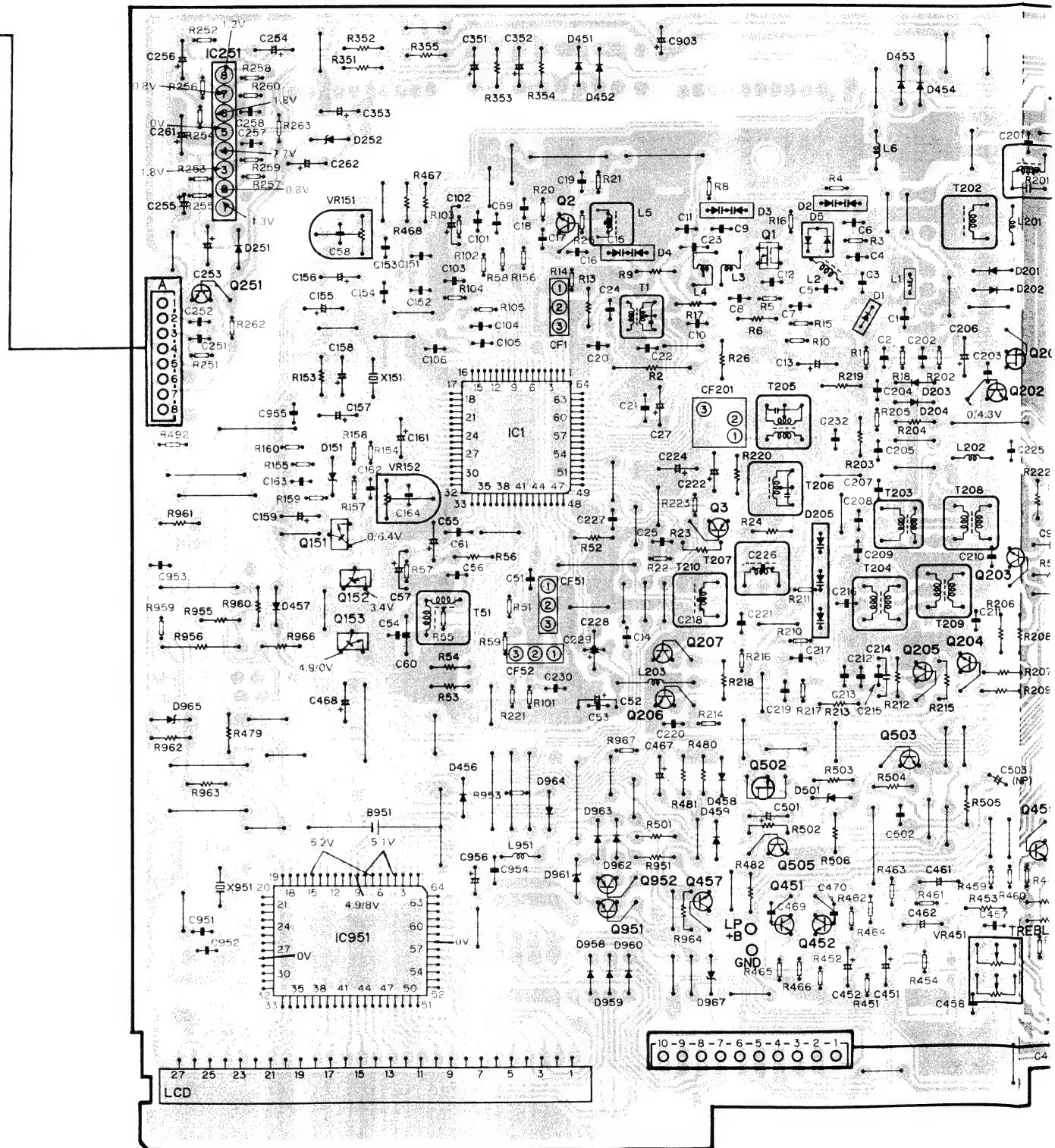
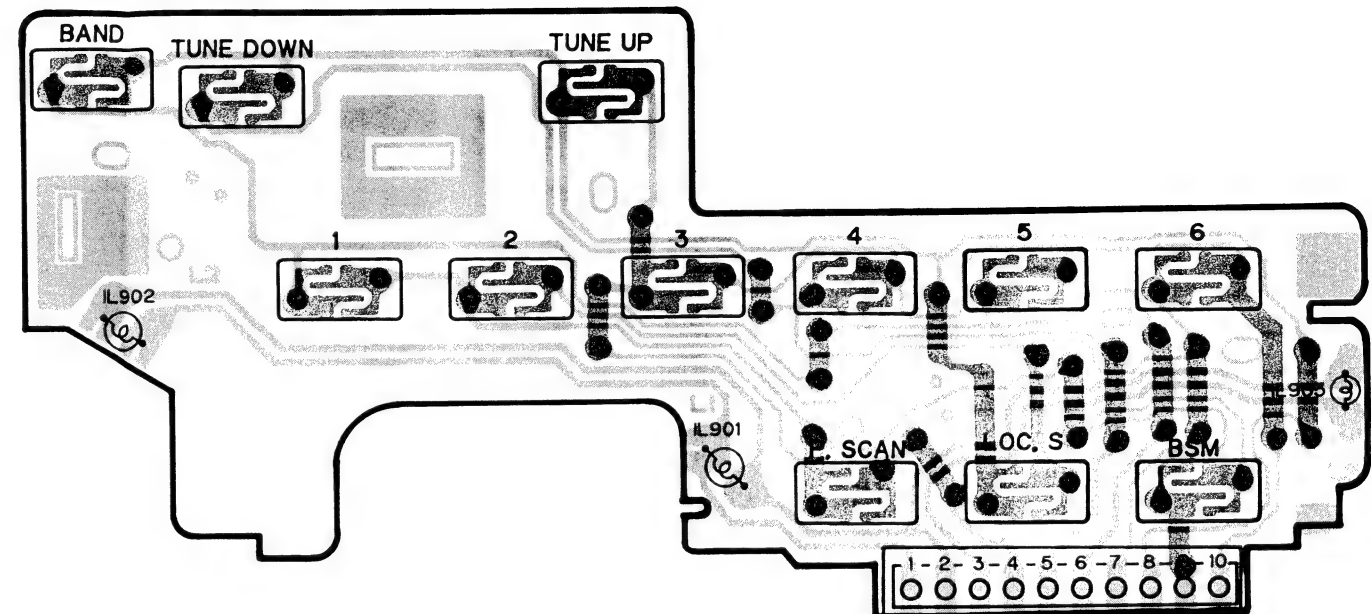
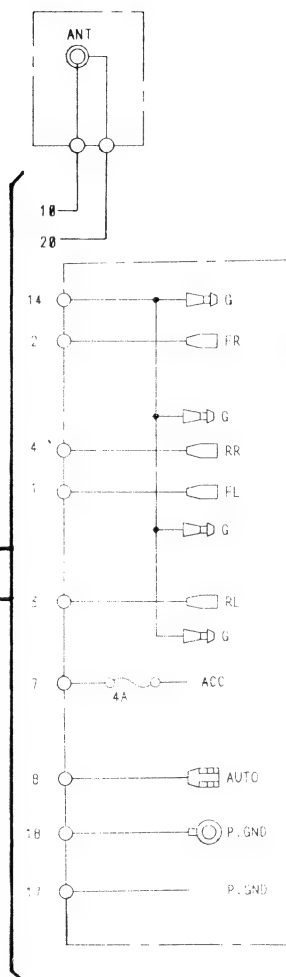
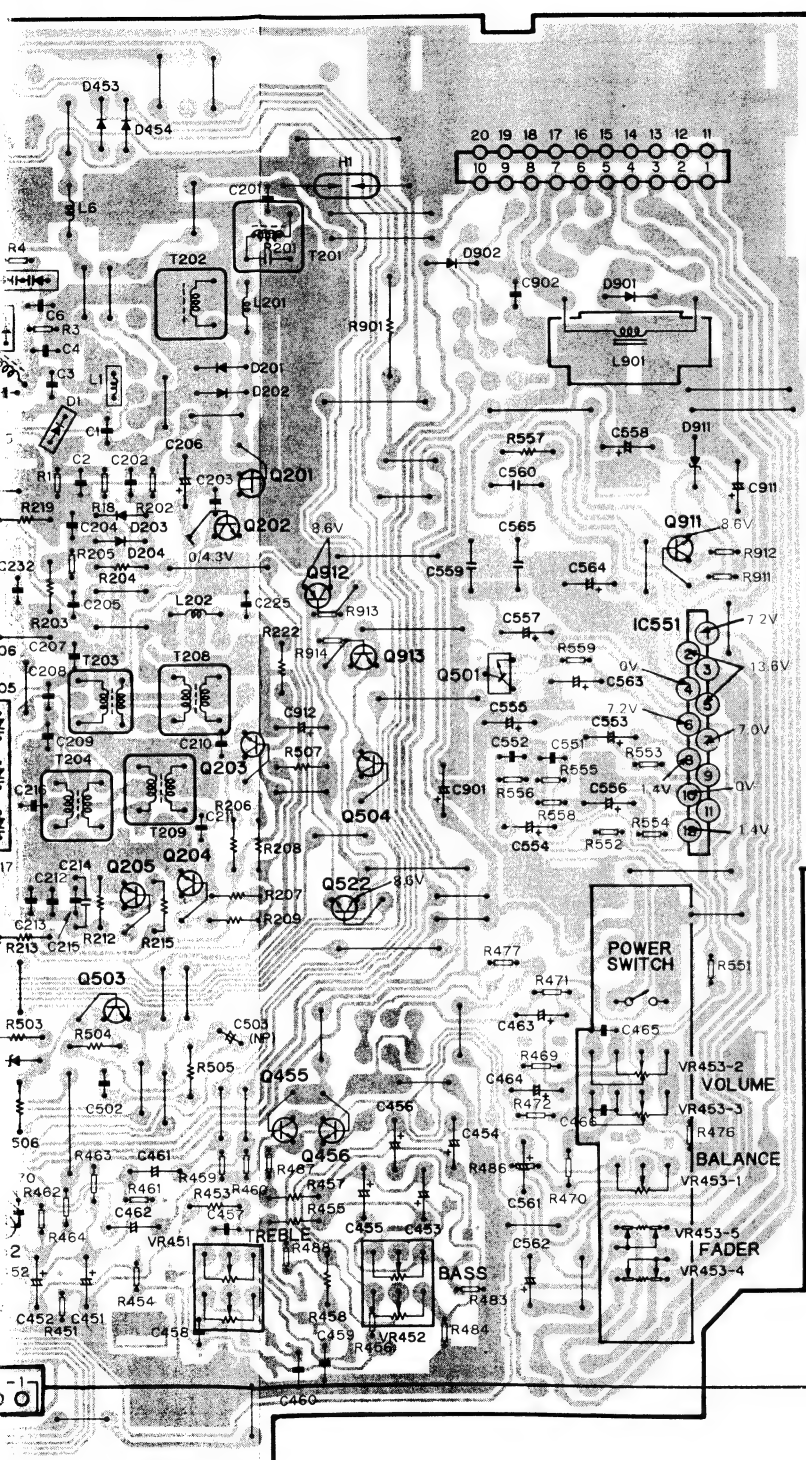
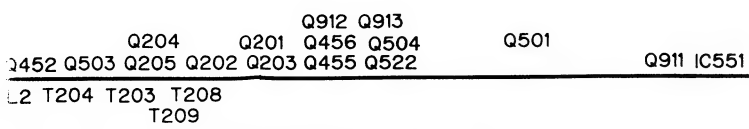


Fig. 11

## 6







TUNER AMP UNIT: IC1

|           |           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b>  | <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>10</b> |
| 2.1V      | 0V        |           |           |           | 5.2V      |           | 2.9V      |           |           |
| <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> |
| 4.8V      | 4.8V      | 4.8V      | 2.8V      | 0V        | 2.3V      | 2.3V      | 4.7V      |           | 3.5V      |
| <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> |
| 3.5V      | 3.5V      | 3.8V      | 3.5V      | 3.5V      | 4.8V      |           | 0/4.1V    | 0/3.5V    | 0V        |
| <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> | <b>39</b> | <b>40</b> |
| 0/6.4V    | 3.4V      |           |           |           |           |           |           |           |           |
| <b>41</b> | <b>42</b> | <b>43</b> | <b>44</b> | <b>45</b> | <b>46</b> | <b>47</b> | <b>48</b> | <b>49</b> | <b>50</b> |
| 1.3V      |           |           | 2.4/0V    |           | 3.3/0V    | 4/5.2V    | 3.4/3.8V  | 8.7V      |           |
| <b>51</b> | <b>52</b> | <b>53</b> | <b>54</b> | <b>55</b> | <b>56</b> | <b>57</b> | <b>58</b> | <b>59</b> | <b>60</b> |
| 0.2V      | 0/6.9V    | 4.9/0V    | 8.7V      | 0/2.2V    | 0/4.3V    |           | 3.4/0V    | 8.6/0V    | 8.6/0V    |
| <b>61</b> | <b>62</b> | <b>63</b> | <b>64</b> |           |           |           |           |           |           |
| 8.6/0V    | 8.6/0V    |           |           |           |           |           |           |           |           |

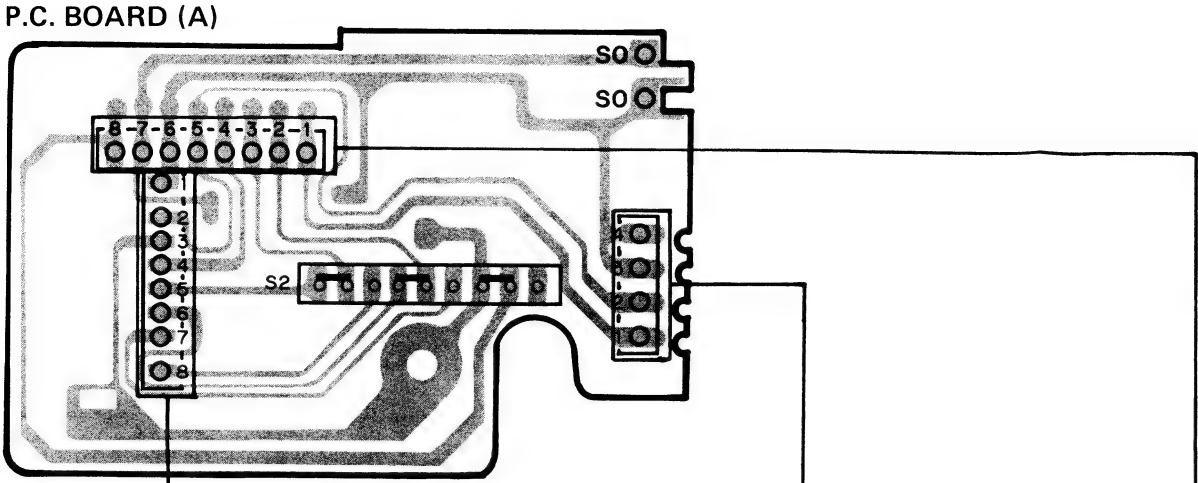
FM/MW

Fig. 12

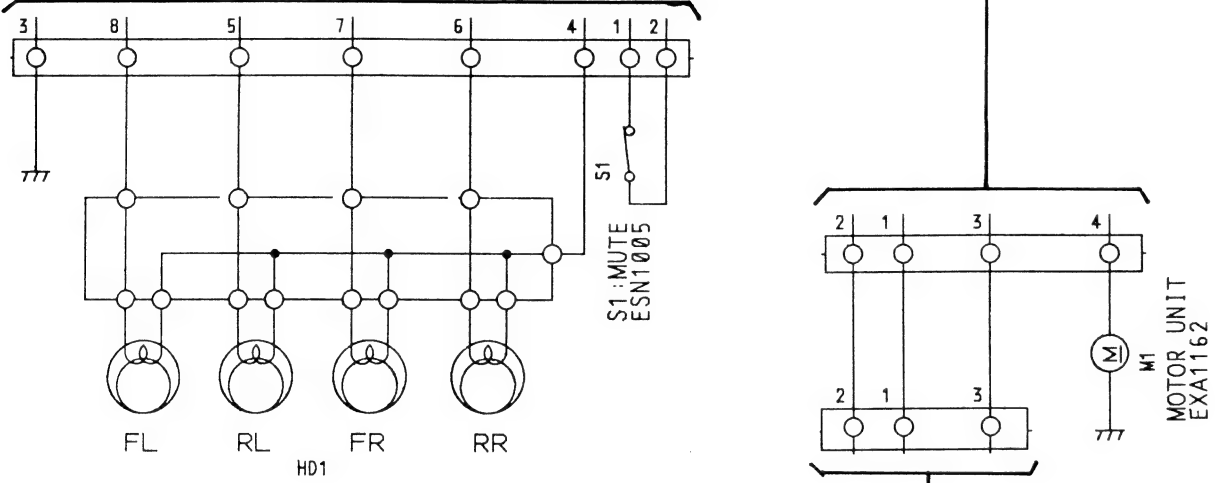


12. CONNECTION DIAGRAM (KE-2700B)

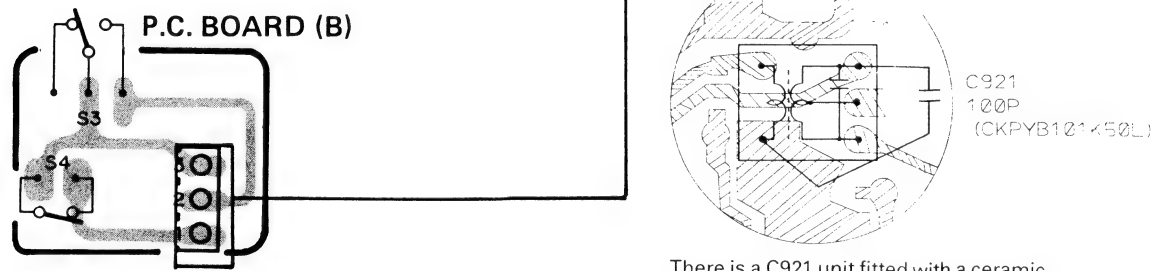
A



B

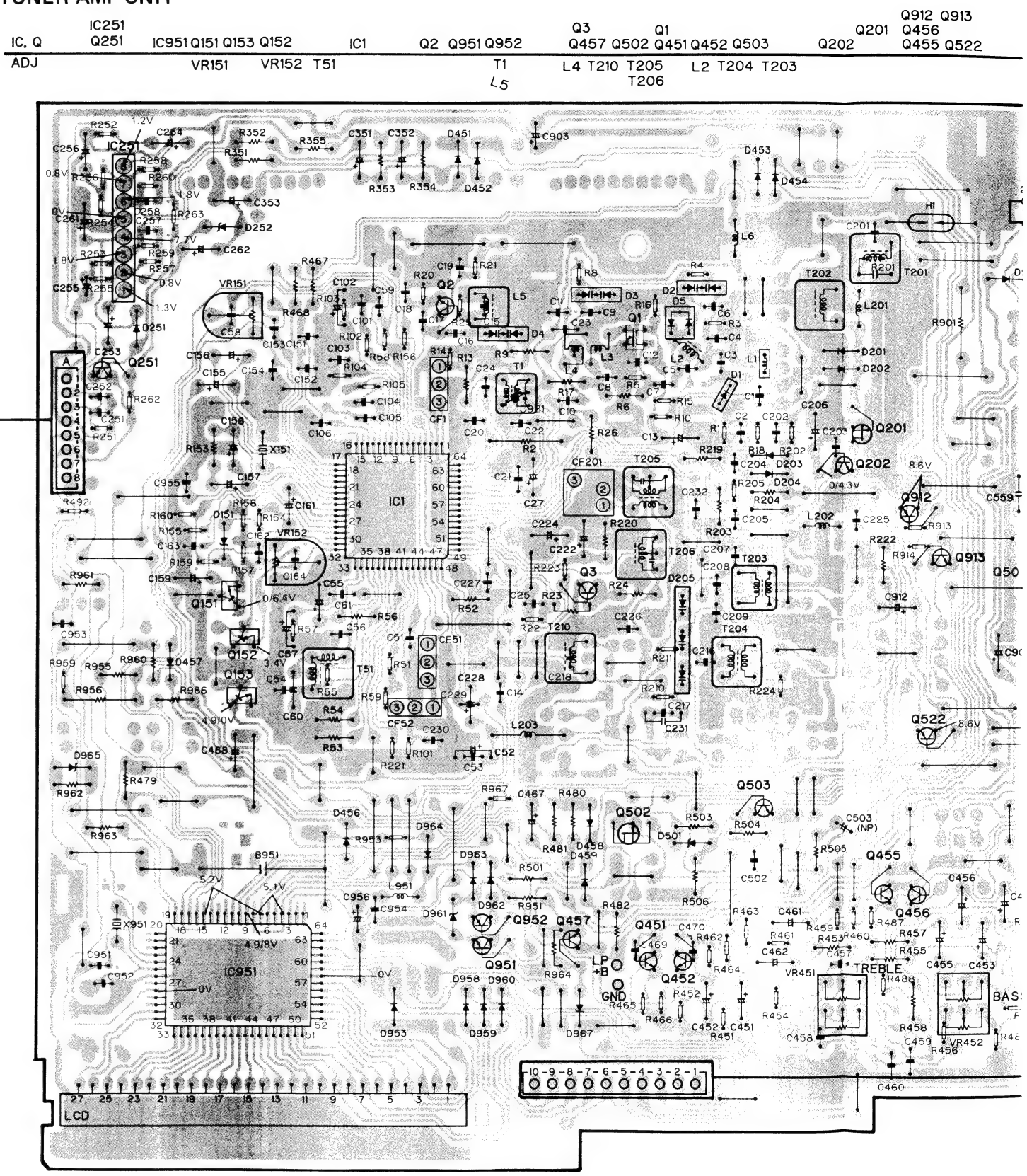


C

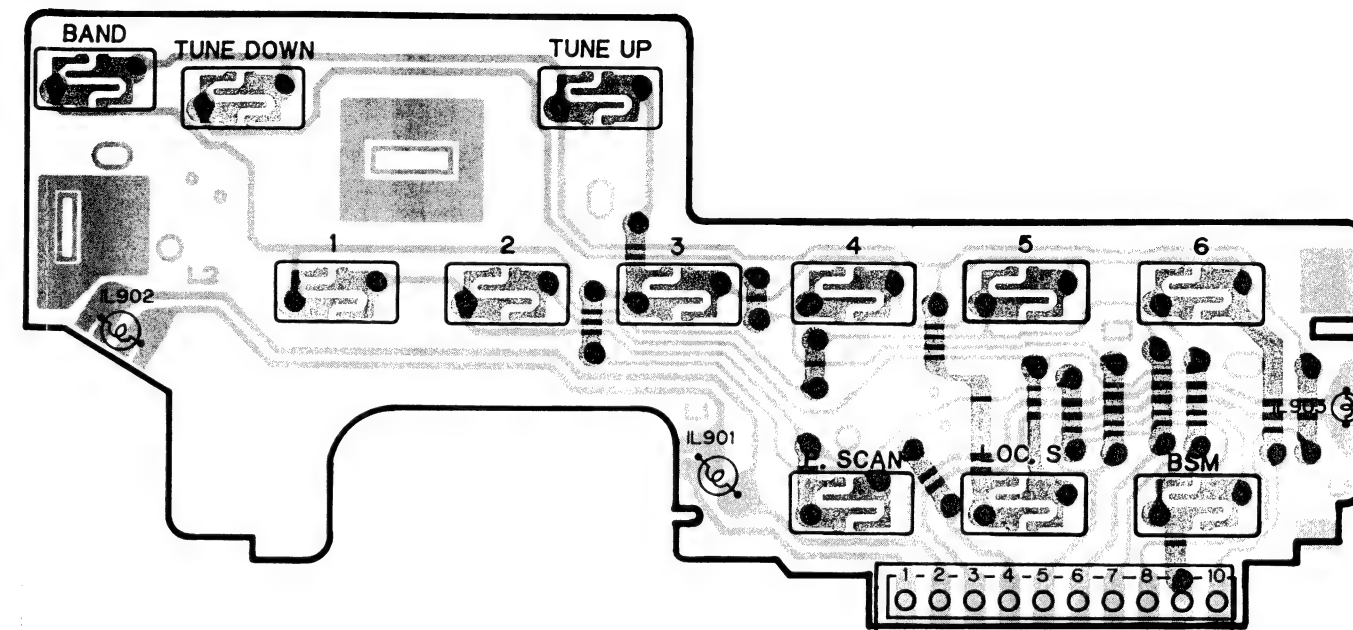
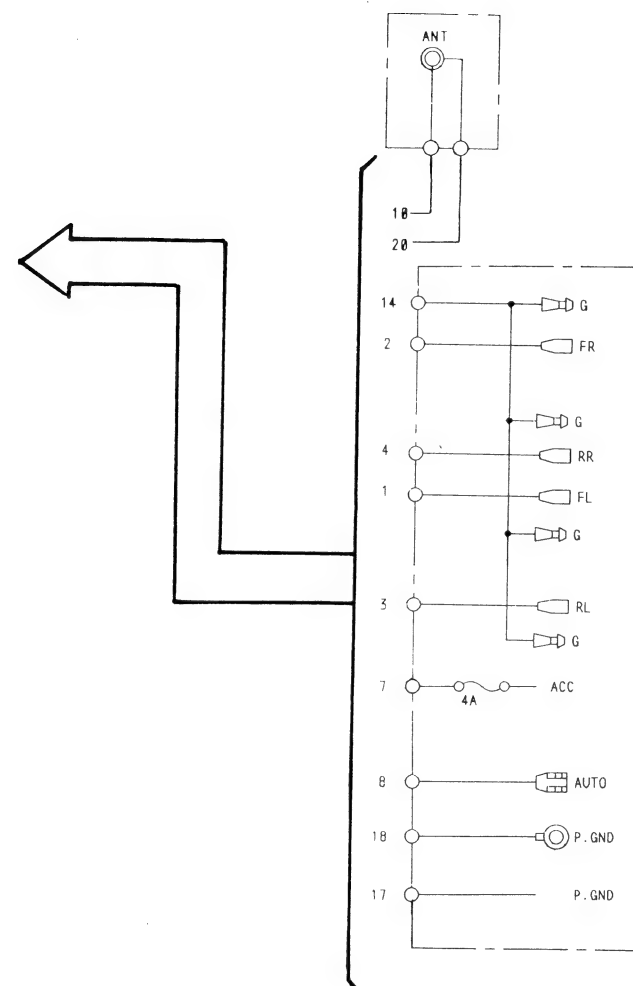
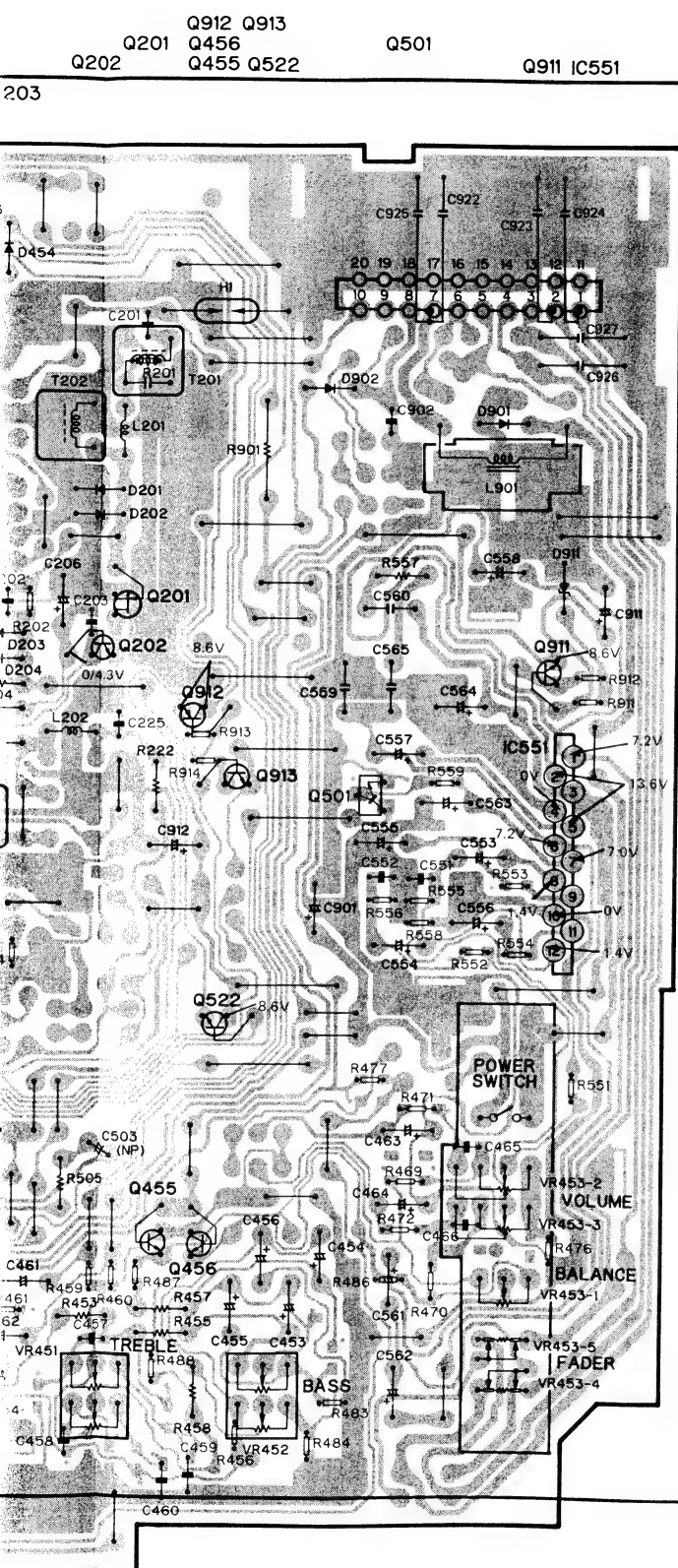


There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

TUNER AMP UNIT



D

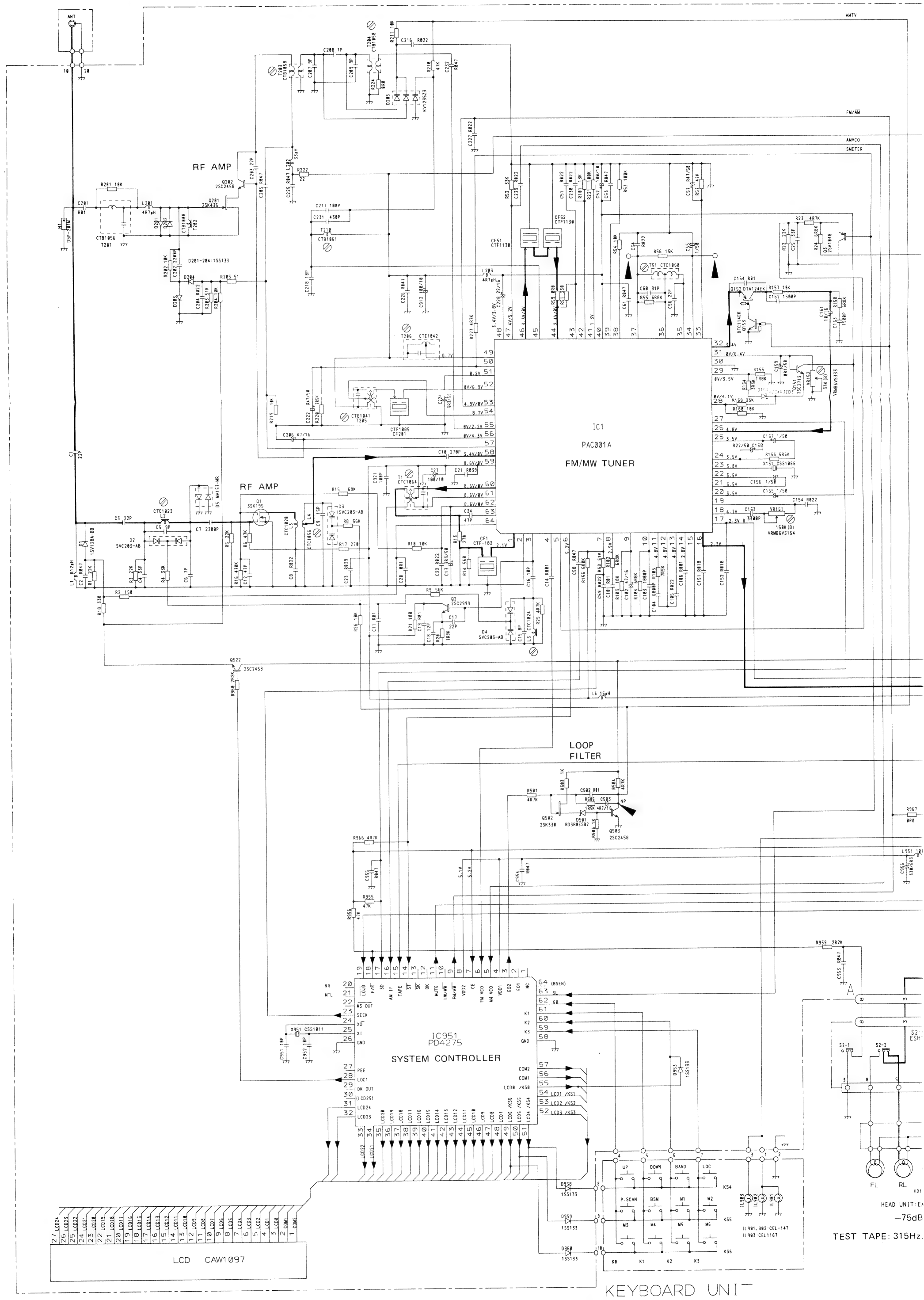


TUNER AMP UNIT: IC1

|           |           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b>  | <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>10</b> |
| 2.1V      | 0V        |           |           |           | 5.2V      |           | 2.9V      |           |           |
| <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> |
| 4.8V      | 4.8V      | 4.8V      | 2.8V      | 0V        | 2.3V      | 2.3V      | 4.7V      |           | 3.5V      |
| <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> |
| 3.5V      | 3.5V      | 3.8V      | 3.5V      | 3.5V      | 4.8V      |           | 0/4.1V    | 0/3.5V    | 0V        |
| <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> | <b>39</b> | <b>40</b> |
| 0/6.4V    | 3.4V      |           |           |           |           |           |           |           |           |
| <b>41</b> | <b>42</b> | <b>43</b> | <b>44</b> | <b>45</b> | <b>46</b> | <b>47</b> | <b>48</b> | <b>49</b> | <b>50</b> |
| 1.3V      |           |           | 2.4/0V    |           | 3.3/0V    | 4/5.2V    | 3.4/3.8V  | 8.7V      |           |
| <b>51</b> | <b>52</b> | <b>53</b> | <b>54</b> | <b>55</b> | <b>56</b> | <b>57</b> | <b>58</b> | <b>59</b> | <b>60</b> |
| 0.2V      | 0/6.9V    | 4.9/0V    | 8.7V      | 0/2.2V    | 0/4.3V    |           | 3.4/0V    | 8.6/0V    | 8.6/0V    |
| <b>61</b> | <b>62</b> | <b>63</b> | <b>64</b> |           |           |           |           |           |           |
| 8.6/0V    | 8.6/0V    |           |           |           |           |           |           |           |           |

Fig. 13

### 13. SCHEMATIC CIRCUIT DIAGRAM (KE-2700B)

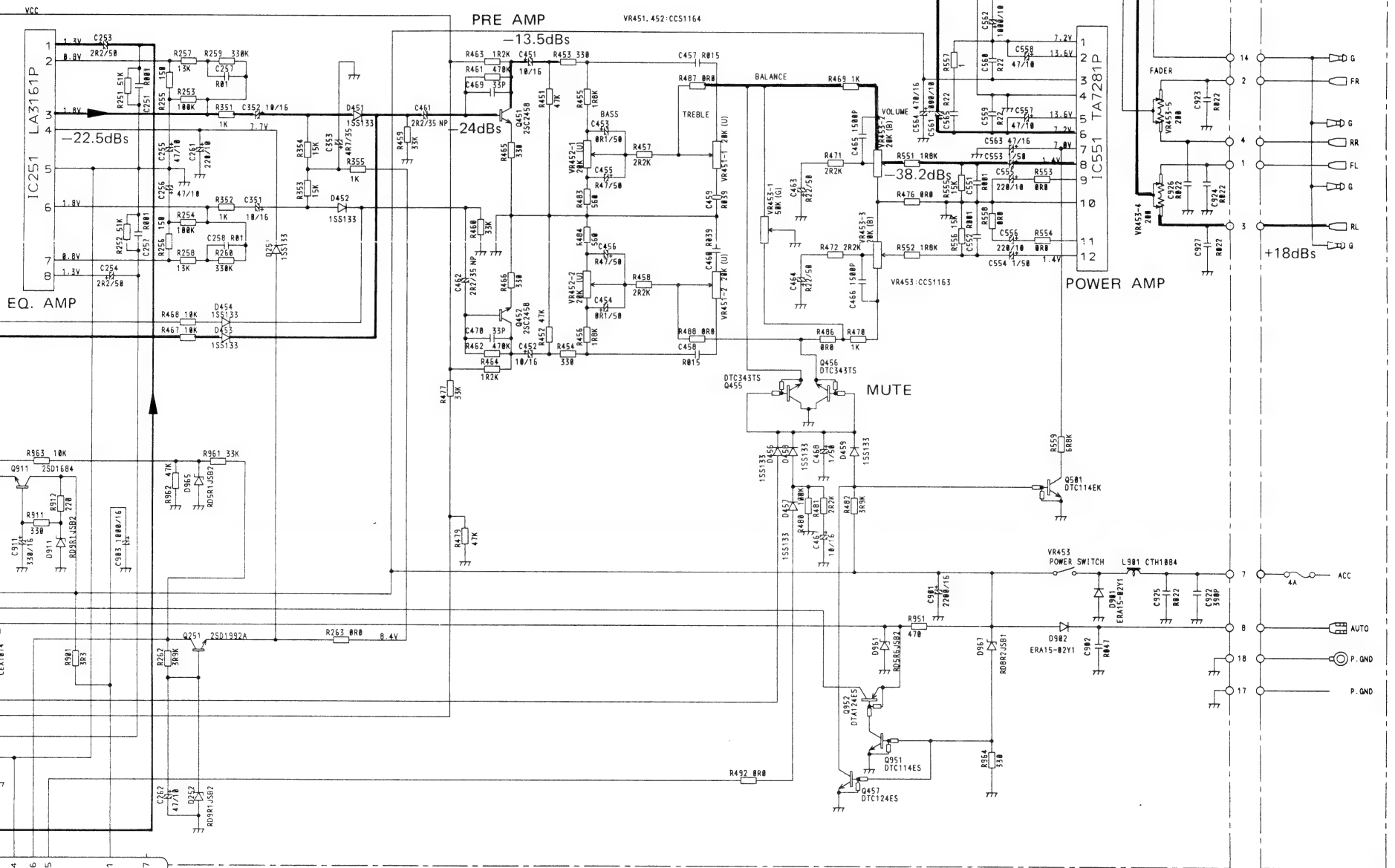


NOTE :

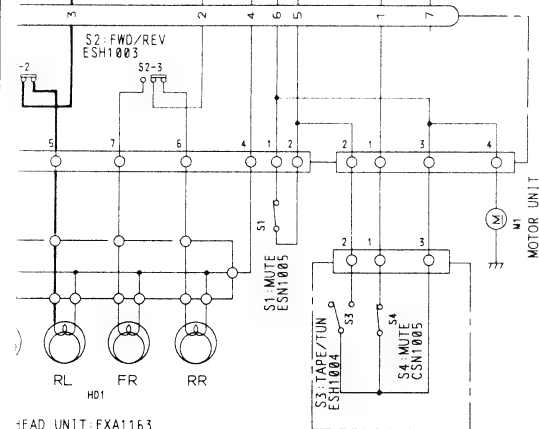
- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- ⊢ Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2→2R2  
0.022→R022

TUNER AMP UNIT



P.C. BOARD (A)

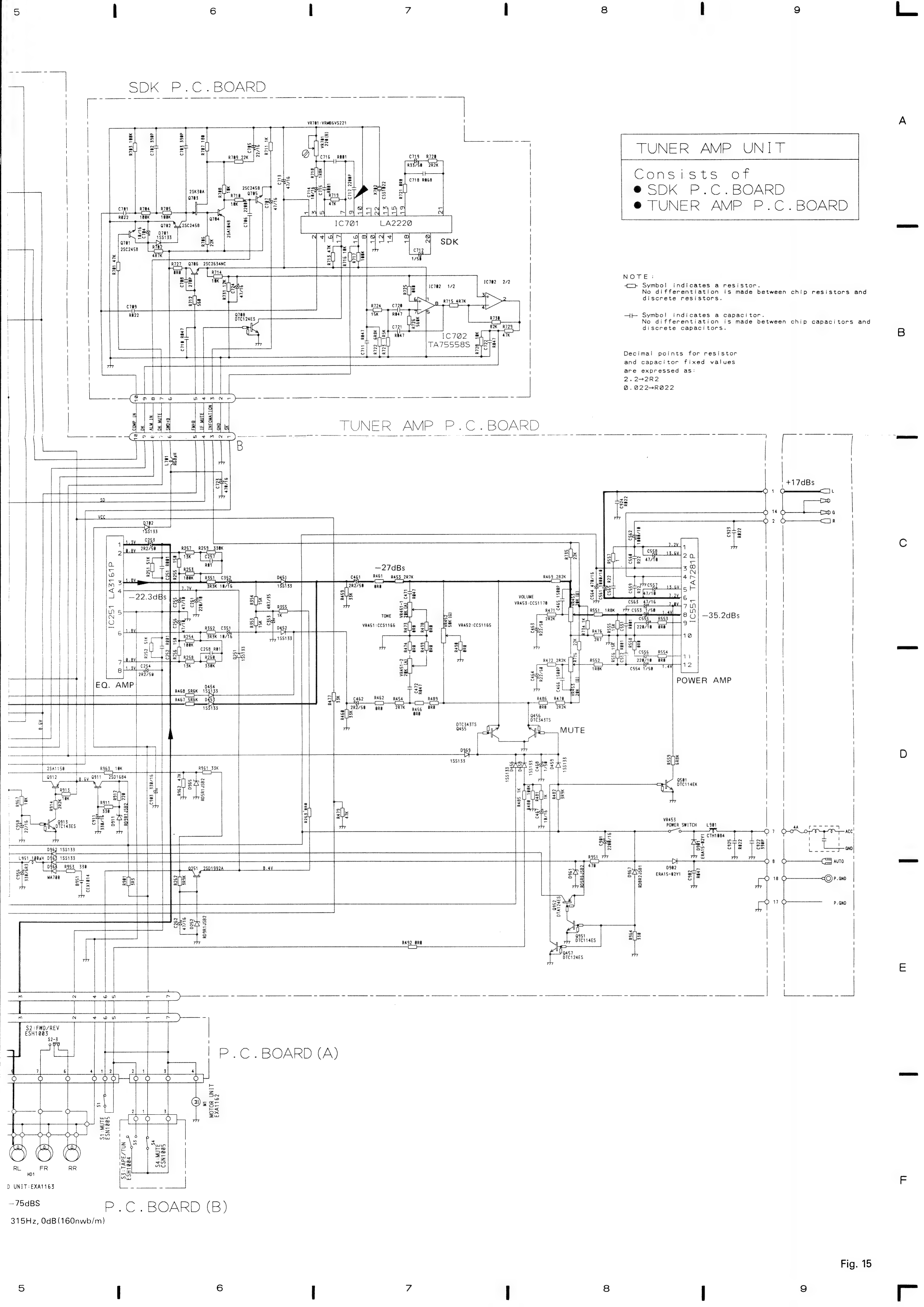


P.C. BOARD (B)

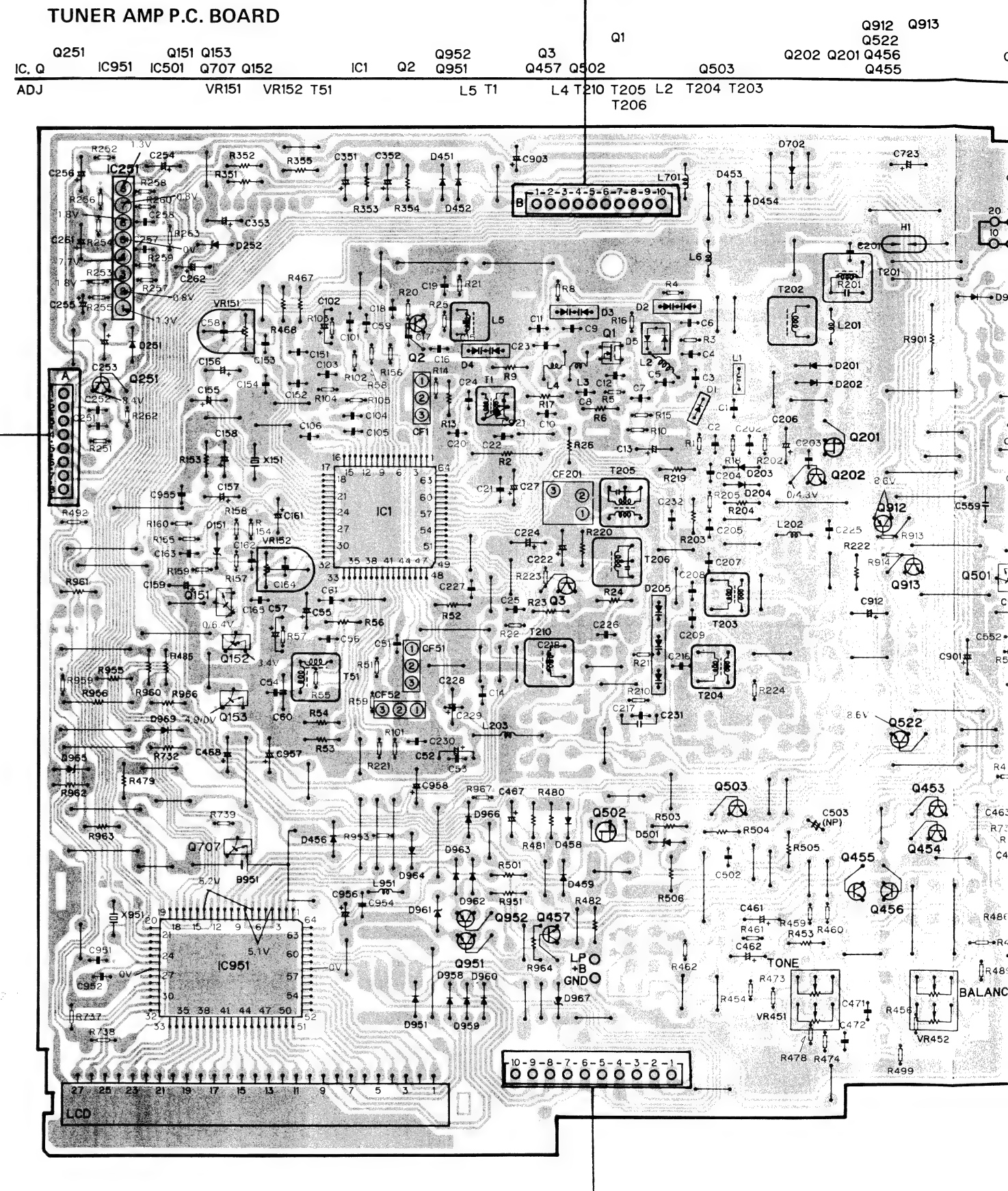
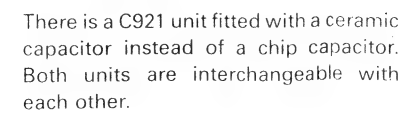
HEAD UNIT EXA1163  
-75dBs  
315Hz, 0dB(160nwb/m)

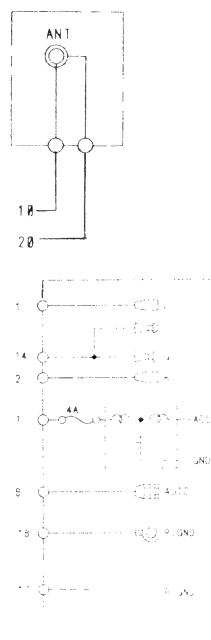
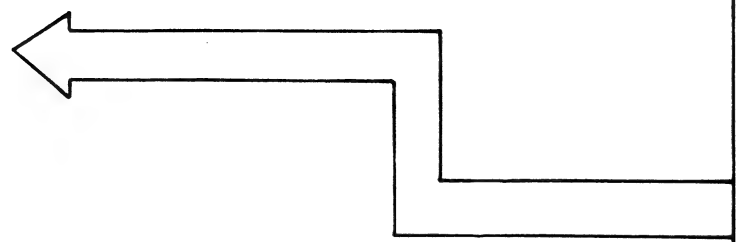




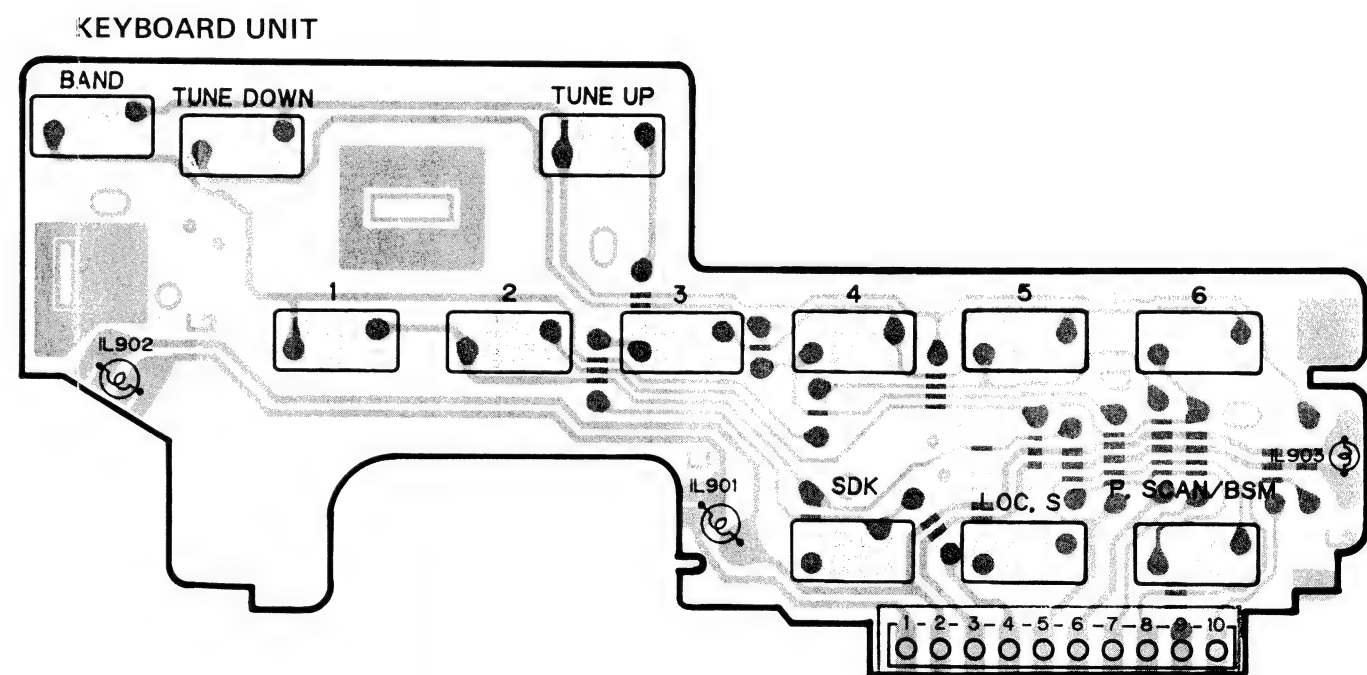








## FM/MW



|                      |            |            |
|----------------------|------------|------------|
| Q706 Q703            |            |            |
| IC. Q Q701 Q702 Q704 | IC702 Q705 | IC701 Q708 |
| ADJ                  |            | VR701      |

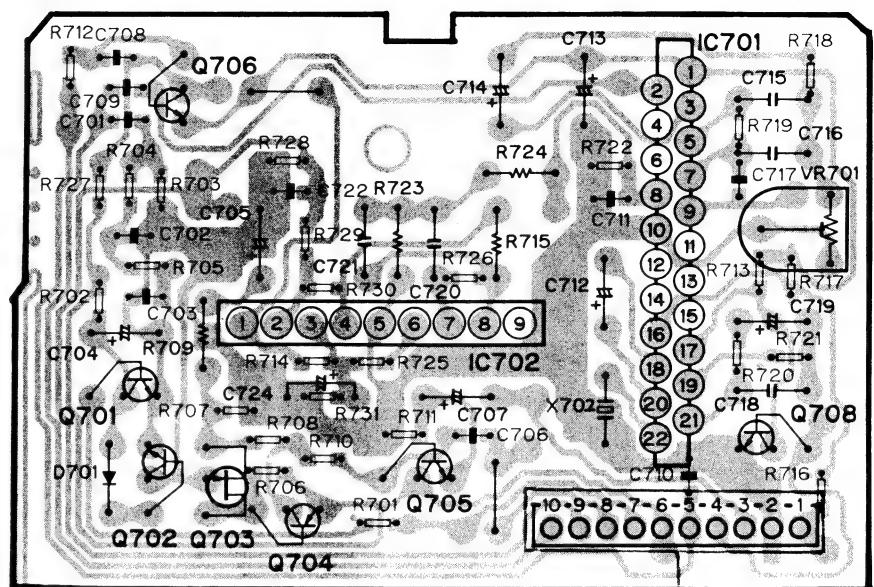


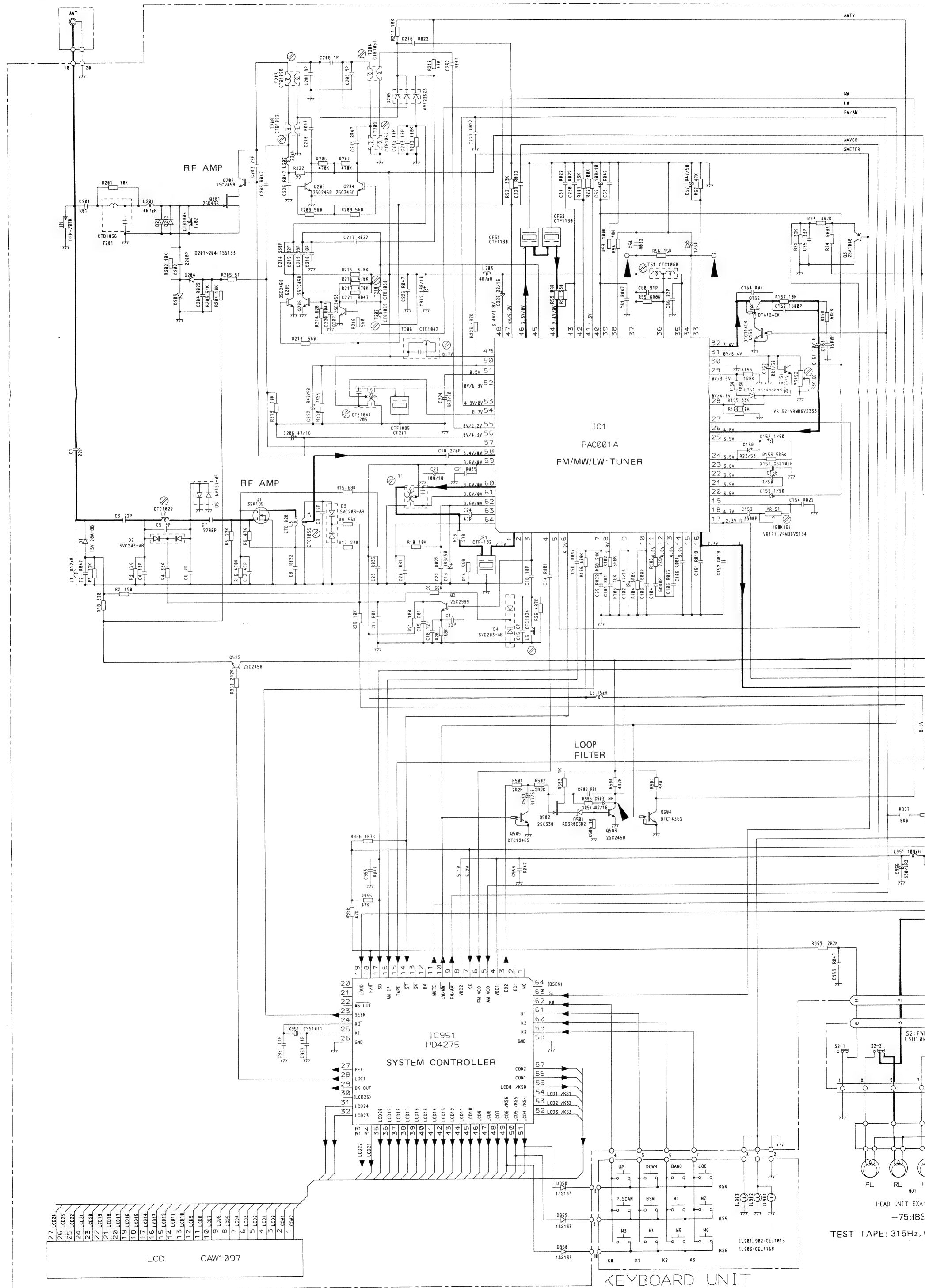
Fig. 16







## 17. SCHEMATIC CIRCUIT DIAGRAM (KE-1730B)



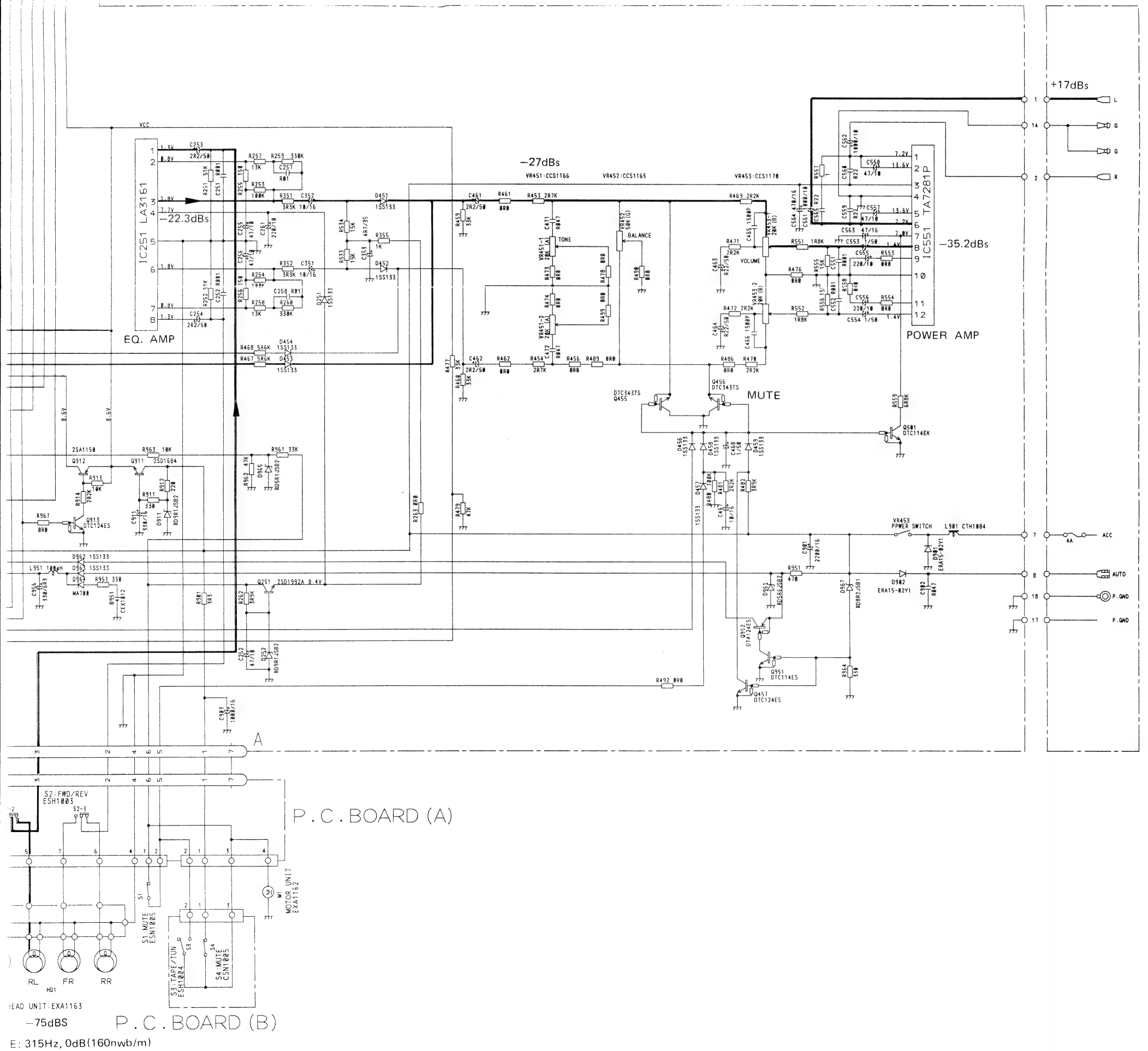


NOTE :

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- ||— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2→2R2  
0.022→R022

TUNER AMP UNIT



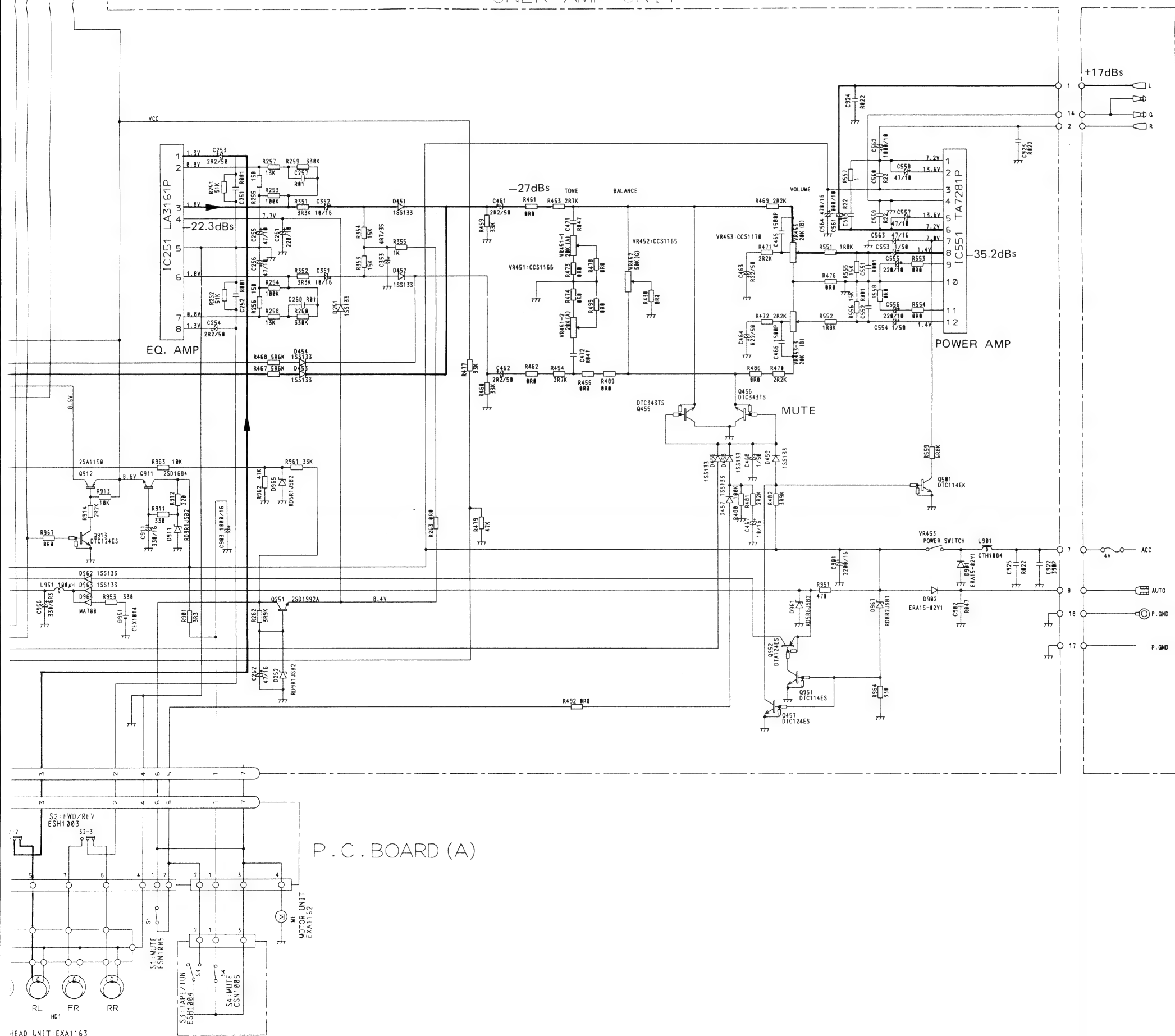


## NOTE:

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- ||— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor  
and capacitor fixed values  
are expressed as:  
2.2→2R2  
0.022→R022

## TUNER AMP UNIT



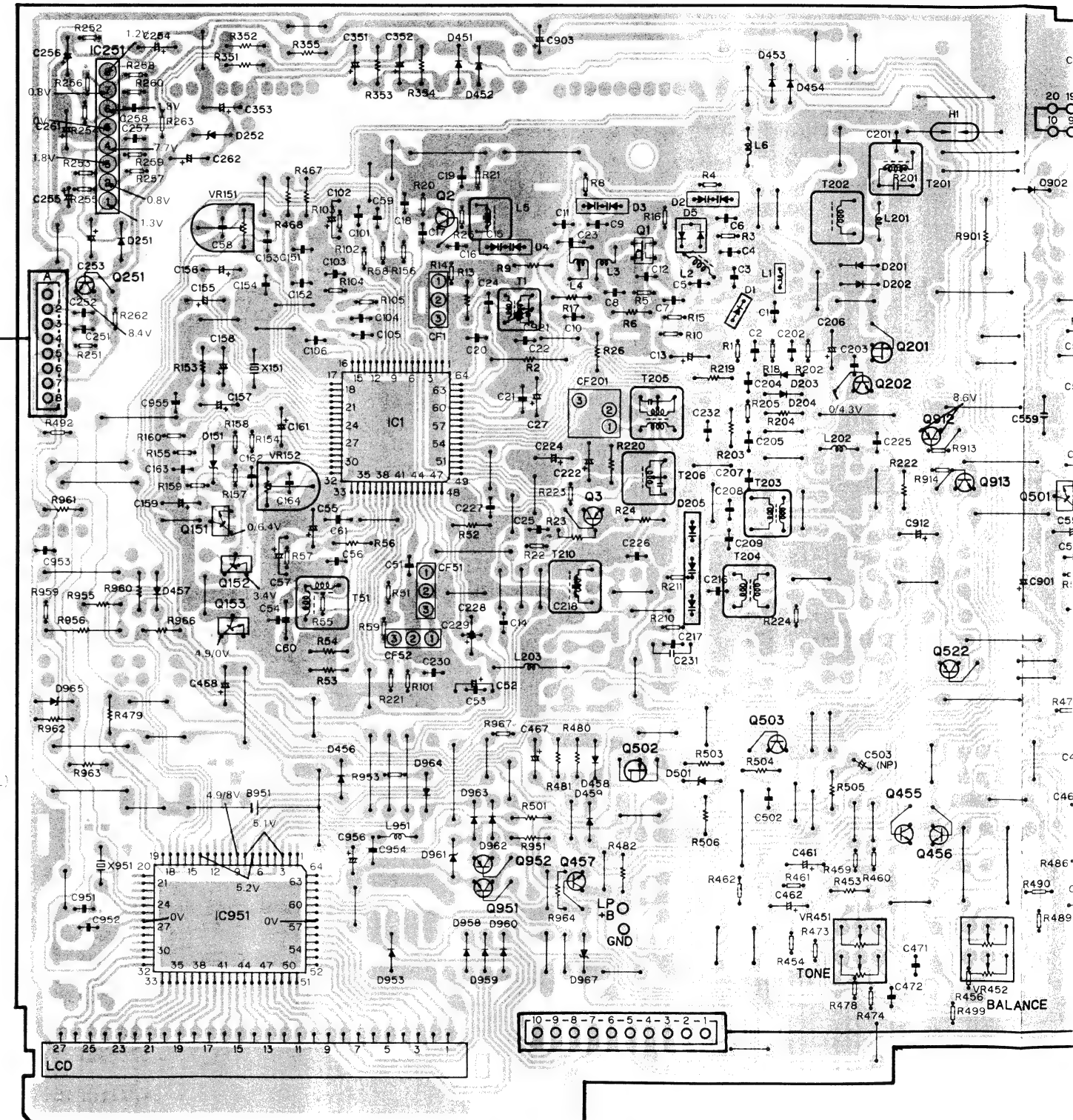
## P.C. BOARD (A)

## P.C. BOARD (B)

## 6

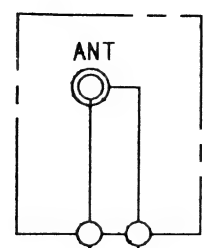
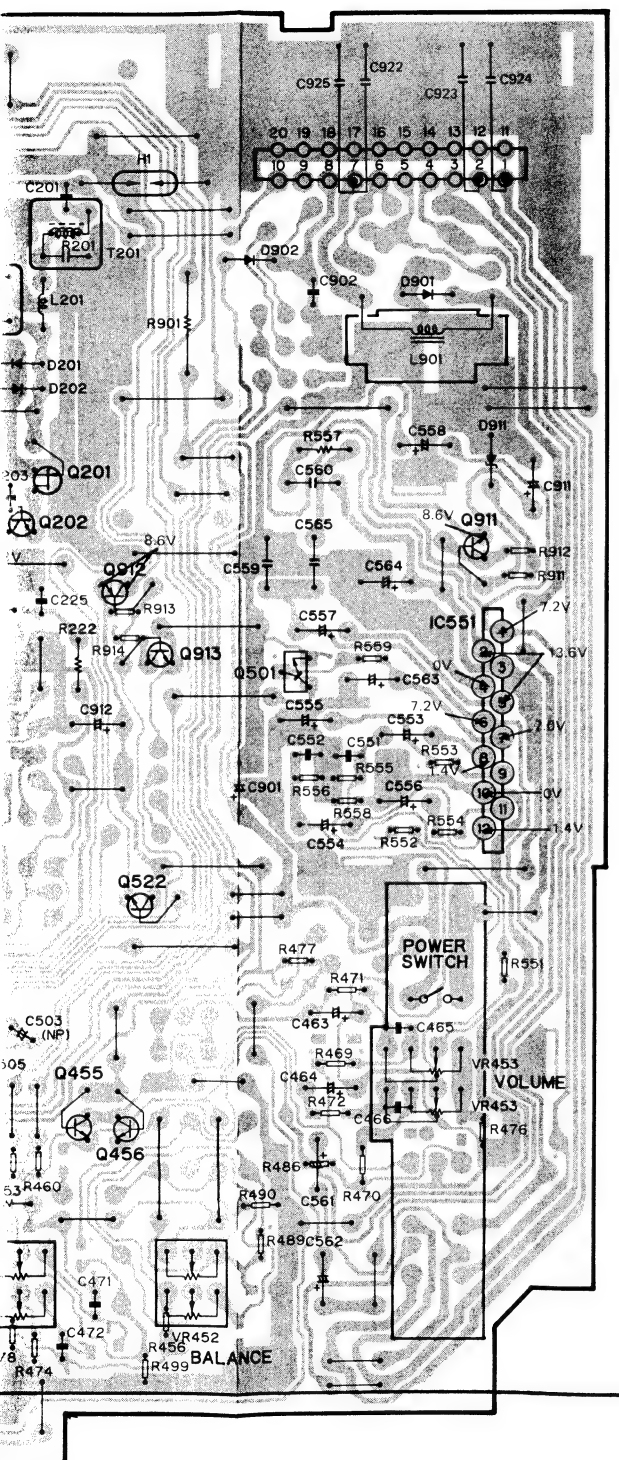


C921  
100P  
(CKPYB121x52)

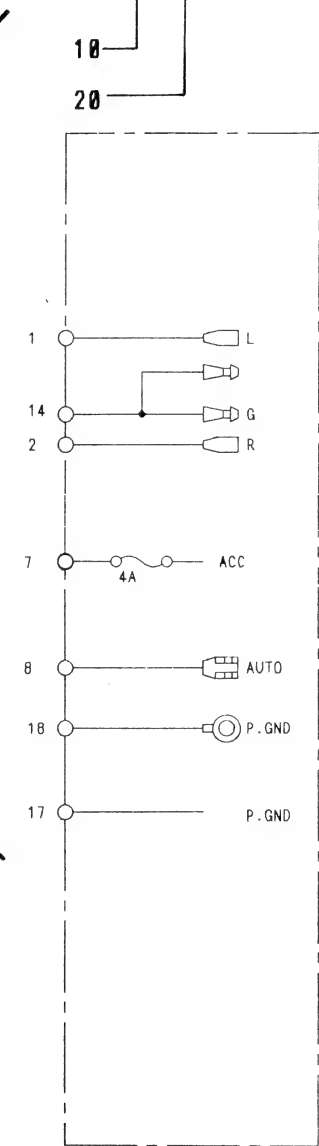




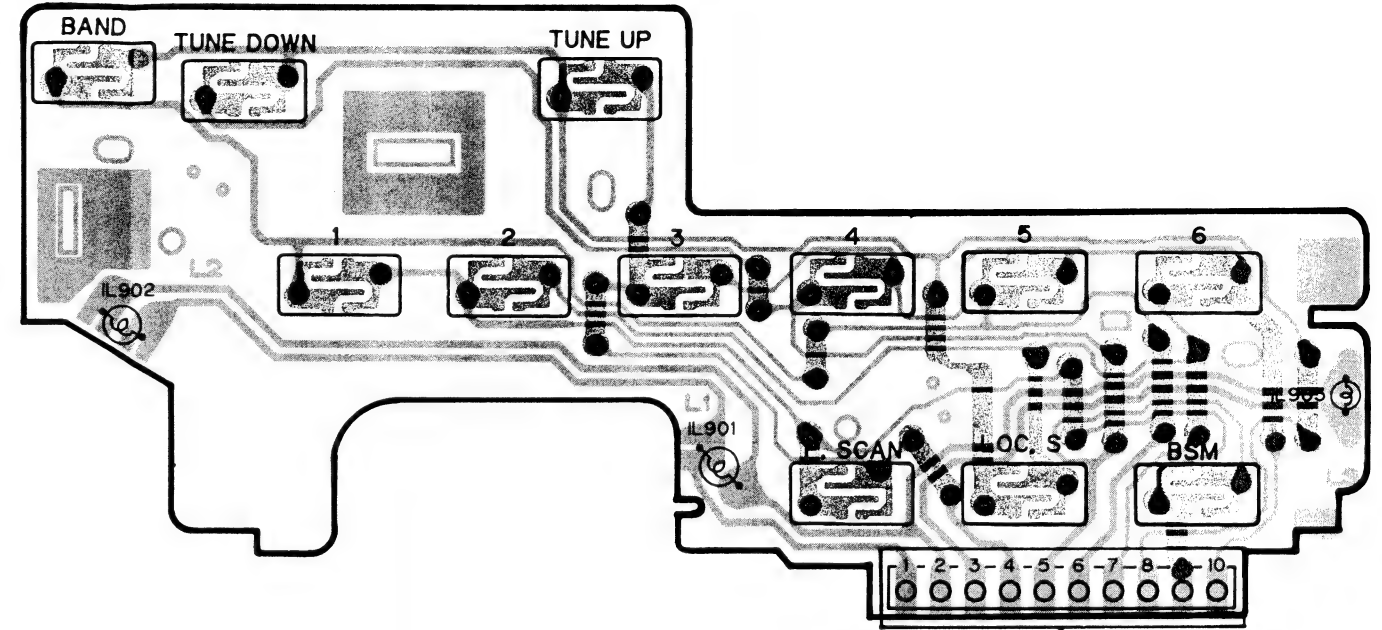
Q912 Q913  
Q201 Q456  
Q202 Q455 Q522  
Q501  
Q911 IC551



18  
20



KEYBOARD UNIT



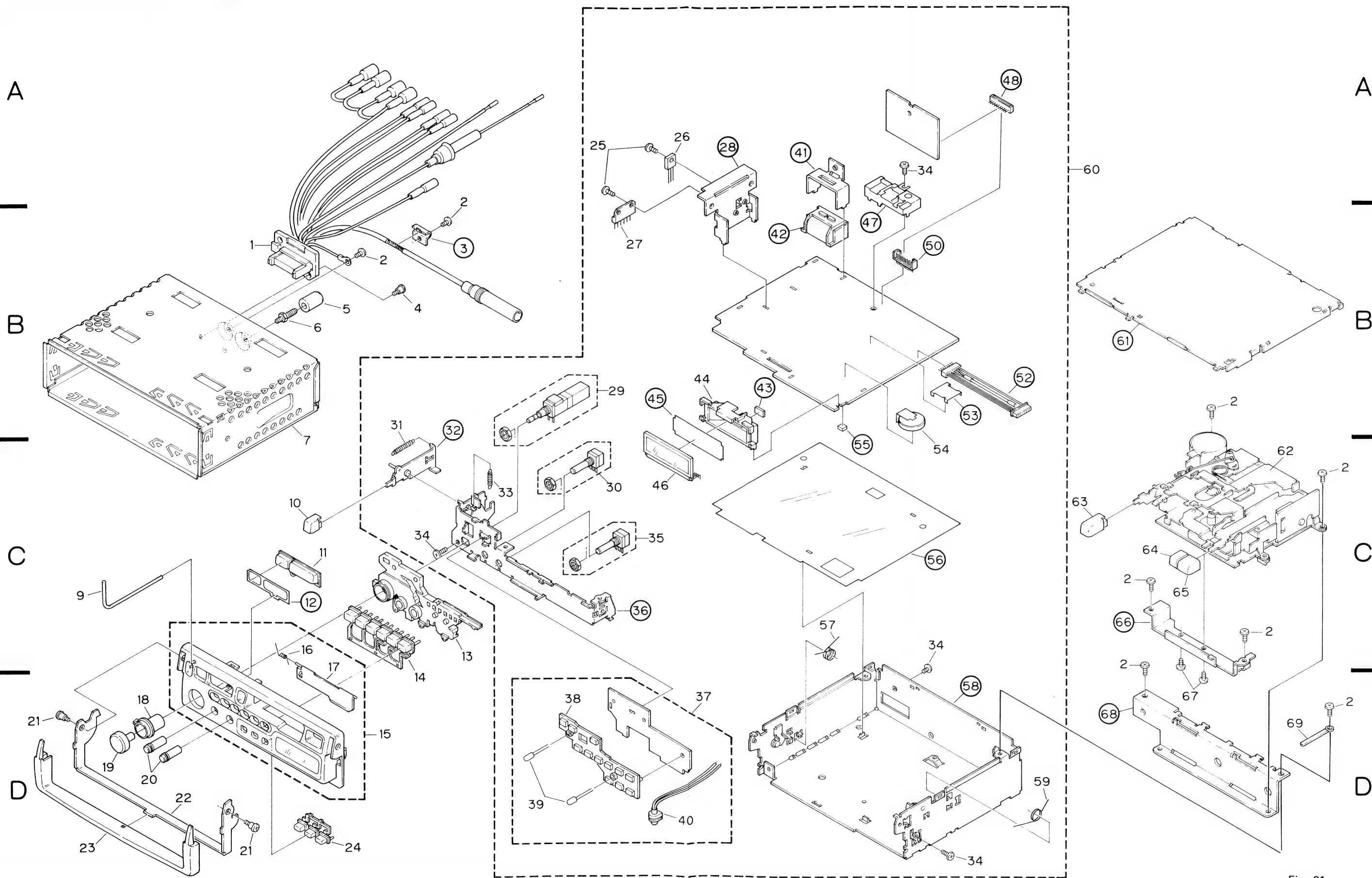
TUNER AMP UNIT: IC1

| 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8        | 9      | 10     |
|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
| 2.1V   | 0V     |        |        |        | 5.2V   |        | 2.9V     |        |        |
| 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18       | 19     | 20     |
| 4.8V   | 4.8V   | 4.8V   | 2.8V   | 0V     | 2.3V   | 2.3V   | 4.7V     |        | 3.5V   |
| 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28       | 29     | 30     |
| 3.5V   | 3.5V   | 3.8V   | 3.5V   | 3.5V   | 4.8V   |        | 0/4.1V   | 0/3.5V | 0V     |
| 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38       | 39     | 40     |
| 0/6.4V | 3.4V   |        |        |        |        |        |          |        |        |
| 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48       | 49     | 50     |
| 1.3V   |        |        | 2.4/0V |        | 3.3/0V | 4/5.2V | 3.4/3.8V | 8.7V   |        |
| 51     | 52     | 53     | 54     | 55     | 56     | 57     | 58       | 59     | 60     |
| 0.2V   | 0/6.9V | 4.9/0V | 8.7V   | 0/2.2V | 0/4.3V |        | 3.4/0V   | 8.6/0V | 8.6/0V |
| 61     | 62     | 63     | 64     |        |        |        |          |        |        |
| 8.6/0V | 8.6/0V |        |        |        |        |        |          |        |        |

FM/MW

Fig. 20

# 20. EXPLODED VIEW



NOTE:  
 • Parts wh  
 • Parts ma  
 longer th

• Parts Li

Mark No.

|    |
|----|
| 1  |
| 2  |
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| 34 |
| 35 |

Fig. 21



## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## ● Parts List (KE-2700SDK/WG)

| Mark No. | Description        | Part No.     | Mark No. | Description             | Part No.     |
|----------|--------------------|--------------|----------|-------------------------|--------------|
| 1        | Cord Assy          | CDE3289      | 36       | Holder Unit             |              |
| 2        | Screw              | BSZ30P060FMC | ● 37     | Key Board Unit          | CWM2370      |
| 3        | Clamper            |              | 38       | Switch                  | CNV2519      |
| 4        | Screw              | CBA1073      | 39       | Lamp                    | CEL1013      |
| 5        | Bush               | CNV1009      | 40       | Lamp                    | CEL1168      |
| 6        | Screw              | CBA1002      | 41       | Holder                  |              |
| 7        | Box                | CNB1358      | 42       | Connector               |              |
| 8        | .....              |              | 43       | Spacer                  |              |
| 9        | Shaft              | CLP1064      | 44       | Holder                  | CNV2521      |
| 10       | Button (QR EJECT)  | CAC2548      | 45       | Plate                   |              |
| 11       | Button (BAND/TUNE) | CAC2544      | 46       | LCD                     | CAW1097      |
| 12       | Spacer             |              | 47       | Case                    |              |
| 13       | Lens               | CNV2518      | 48       | Connector               |              |
| 14       | Button (1-6)       | CAC2670      | 49       | .....                   |              |
| 15       | Grille Unit        | CXA3760      | 50       | Plug                    |              |
| 16       | Spring             | CBH1397      | 51       | .....                   |              |
| 17       | Door               | CAT1307      | 52       | Connector               |              |
| 18       | Knob (FADER)       | CAA1233      | 53       | Shield                  |              |
| 19       | Knob (VOLUME)      | CAA1234      | 54       | Battery                 | CEX1014      |
| 20       | Knob (BASS/TREBLE) | CAA1235      | 55       | Cushion                 |              |
| 21       | Screw              | CBA1165      | 56       | Insulator               |              |
| 22       | Handle             | CNC3262      | 57       | Spring                  | CBH1374      |
| 23       | Cover              | CNV2520      | 58       | Chassis Unit            |              |
| 24       | Button             | CAC2671      | 59       | Spring                  | CBH1366      |
| 25       | Screw              | BSZ30P080FMC | ● 60     | Tuner Amp Assy          | CWM2463      |
| 26       | Transistor         | 2SD1684      | 61       | Case                    |              |
| 27       | IC                 | TA7281P      | ● 62     | Cassette Mechanism Assy | EXK1710      |
| 28       | Heat Sink          |              | 63       | Button (EJECT)          | CAC2545      |
| 29       | Volume (VOLUME)    | CCS1163      | 64       | Button (REW)            | CAC2547      |
| 30       | Volume (BASS)      | CCS1164      |          |                         |              |
| 31       | Spring             | CBH1347      | 65       | Button (FF)             | CAC2546      |
| 32       | Lever Unit         |              | 66       | Bracket                 |              |
| 33       | Spring             | CBH-846      | 67       | Screw                   | BMZ26P040FMC |
| 34       | Screw              | BSZ30P055FZK | 68       | Bracket                 |              |
| 35       | Volume (TREBLE)    | CCS1164      | 69       | Clamper                 | CEF-007      |

NSP: Non Spare Part

| Mark No. | Description        | KE-2700SDK<br>/WG<br>Part No. | KE-2730B<br>/EW<br>Part No. | KE-2700B<br>/IT<br>Part No. | KE-1700SDK<br>/WG<br>Part No. | KE-1730B<br>/EW<br>Part No. | KE-1700B<br>/IT<br>Part No. |
|----------|--------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|
|          | 1 Cord Assy        | CDE3289                       | CDE2975                     | CDE2975                     | CDE3290                       | CDE2978                     | CDE2978                     |
|          | 15 Grille Unit     | CXA3760                       | CXA3758                     | CXA3759                     | CXA3766                       | CXA3764                     | CXA3765                     |
|          | 18 Knob (FADER)    | CAA1233                       | CAA1233                     | CAA1233                     | .....                         | .....                       | .....                       |
|          | 29 Volume (VOLUME) | CCS1163                       | CCS1163                     | CCS1163                     | CCS1170                       | CCS1170                     | CCS1170                     |
|          | 30 Volume (BASS)   | CCS1164                       | CCS1164                     | CCS1164                     | CCS1165                       | CCS1165                     | CCS1165                     |
|          | 35 Volume (TREBLE) | CCS1164                       | CCS1164                     | CCS1164                     | CCS1166                       | CCS1166                     | CCS1166                     |
| ●        | 37 Key Board Unit  | CWM2370                       | CWM2370                     | CWM2480                     | CWM2370                       | CWM2370                     | CWM2480                     |
|          | 39 Lamp            | CEL1013                       | CEL1013                     | CEL-147                     | CEL1013                       | CEL1013                     | CEL-147                     |
|          | 40 Lamp            | CEL1168                       | CEL1168                     | CEL1167                     | CEL1168                       | CEL1168                     | CEL1167                     |
|          | 48 Connector       | NSP (A)                       | .....                       | .....                       | NSP (A)                       | .....                       | .....                       |
|          | 50 Plug            | NSP (A)                       | .....                       | .....                       | NSP (A)                       | .....                       | .....                       |
|          | 54 Battery         | CEX1014                       | CEX1014                     | CEX1014                     | CEX1012                       | CEX1012                     | CEX1012                     |
|          | 58 Chassis Unit    | NSP (A)                       | NSP (B)                     | NSP (B)                     | NSP (C)                       | NSP (B)                     | NSP (B)                     |
| ●        | 60 Tuner Amp Assy  | CWM2463                       | CWM2475                     | CWM2460                     | CWM2484                       | CWM2478                     | CWM2481                     |
|          | 61 Case            | NSP (A)                       | NSP (B)                     | NSP (A)                     | NSP (A)                       | NSP (B)                     | NSP (A)                     |

## 21. PACKING METHOD

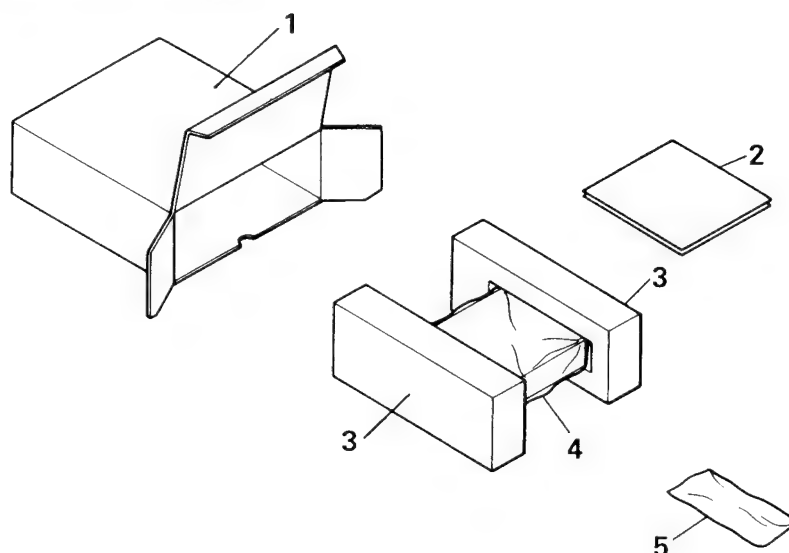


Fig. 22

### ● Parts List

| Mark No. | Description      | KE-2700SDK<br>/WG | KE-2730B<br>/EW | KE-2700B<br>/IT | KE-1700SDK<br>/WG | KE-1730B<br>/EW | KE-1700B<br>/IT |
|----------|------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|
|          |                  | Part No.          | Part No.        | Part No.        | Part No.          | Part No.        | Part No.        |
| 1        | Carton           | CHG1857           | CHG1856         | CHG1858         | CHG1861           | CHG1860         | CHG1862         |
| * 2-1    | Owner's Manual   | CRD1400           | CRD1398         | CRD1399         | CRD1400           | CRD1398         | CRD1399         |
| 2-2      | Card             |                   | .....           | .....           |                   | .....           | .....           |
| 2-3      | Caution Card     |                   | .....           | .....           |                   | .....           | .....           |
| 2-4      | Passport         |                   | .....           | .....           |                   | .....           | .....           |
| 2-5      | Caution Card     |                   | .....           | .....           |                   | .....           | .....           |
| 3        | Styrofoam        | CHP1355           | CHP1355         | CHP1355         | CHP1355           | CHP1355         | CHP1355         |
| 4        | Polyethylene Bag | CEG-162           | CEG-162         | CEG-162         | CEG-162           | CEG-162         | CEG-162         |
| * 5      | Accessory Assy   | CEA1584           | CEA1584         | CEA1584         | CEA1584           | CEA1584         | CEA1584         |

| * 5 Accessory Assy      CEA1584 |             |          |
|---------------------------------|-------------|----------|
| Mark No.                        | Description | Part No. |
| 5-1                             | Screw (× 1) | CBA-102  |
| 5-2                             | Screw (× 1) | CBA1002  |
| 5-3                             | Strap       | CNF-111  |
| 5-4                             | Bush        | CNV1009  |
| 5-5                             | Nut (× 2)   | NF50FMC  |
| 5-6                             | Shaft       | CLP1064  |

### \* 2-1 Owner's Manual

| Part No. | Model                          | Language   |
|----------|--------------------------------|--|
| CRD1400  | KE-2700SDK/WG<br>KE-1700SDK/WG | German, French   |
| CRD1398  | KE-2730B/EW<br>KE-1730B/EW     | English, French, German,<br>Norwegian, Dutch               |
| CRD1399  | KE-2700B/IT<br>KE-1700B/IT     | English, Spanish, Italian,<br>Finnish, Swedish, Portuguese |

## 22. CASSETTE MECHANISM EXPLODED VIEW

### • Parts List

| Mark No. | Description      | Part No.     | Mark No. | Description       | Part No.     |
|----------|------------------|--------------|----------|-------------------|--------------|
| 1        | Reel Unit        | EXA1167      | 46       | Switch            | ESH1004      |
| 2        | Gear Unit        | EXA1159      | 47       | Switch            | CSN1005      |
| 3        | Washer           | CBF1037      | 48       | Screw             | CBA1025      |
| 4        | Gear             | ENV1230      | 49       | Gear              | ENV1229      |
| 5        | Gear             | ENV1203      | 50       | Washer            | CBF1038      |
| 6        | Gear             | ENV1204      | 51       | Belt              | ENT1020      |
| 7        | Gear             | ENV1212      | 52       | Gear              | ENV1209      |
| 8        | Gear             | ENV1211      | 53       | Arm Unit          | EXA1155      |
| 9        | Sub Chassis Unit |              | 54       | Washer            | YE30FUC      |
| 10       | Arm              | ENV1210      | 55       | Spring            | EBH1310      |
| 11       | Screw            | BMZ20P025FMC | 56       | Flywheel Unit     | EXA1161      |
| 12       | Spring           | EBH1304      | 57       | Belt              | ENT1018      |
| 13       | Screw            | JFZ20P040FNI | 58       | Arm               | ENV1206      |
| 14       | Collar           | ELA1220      | 59       | Spring            | EBH1317      |
| 15       | Shaft            |              | 60       | Gear              | ENV1205      |
| 16       | Lever            | ENC1202      | 61       | Chassis Unit      |              |
| 17       | Washer           | EBF1015      | 62       | Screw             | JFZ20P025FNI |
| 18       | Gear             | ENV1268      | 63       | .....             |              |
| 19       | Spring           | EBH1313      | 64       | Pulley            | ENV1207      |
| 20       | Spring           | EBH1314      | 65       | .....             |              |
| 21       | Lever            | ENC1208      | 66       | .....             |              |
| 22       | Spring           | EBH1307      | 67       | Plug              |              |
| 23       | Tube             |              | 68       | F. C. Board       |              |
| 24       | Spring           | EBH1306      | 69       | Switch            | ESH1003      |
| 25       | .....            |              | 70       | Washer            | WH23FMC      |
| 26       | Lever            | ENC1209      | 71       | Screw             | BSZ23P040FMC |
| 27       | Spring           | EBH1316      | 72       | Screw             | CBA1015      |
| 28       | Arm              | ENC1222      | 73       | Head Unit         | EXA1163      |
| 29       | Spring           | EBH1308      | 74       | P. C. Board       | ENP1042      |
| 30       | Washer           | YE15FUC      | 75       | Switch            | ESN1005      |
| 31       | Arm              | ENC1221      | 76       | Washer            | YE20FUC      |
| 32       | Spring           | EBH1305      | 77       | Pinch Roller Unit | EXA1154      |
| 33       | Frame            | ENC1204      | 78       | .....             |              |
| 34       | Arm              | ENC1215      | 79       | .....             |              |
| 35       | Shaft            | ELA1251      | 80       | Arm               | ENC1213      |
| 36       | Holder           | ENC1205      | 81       | Screw             | CBA1038      |
| 37       | Spring           | EBH1344      | 82       | Arm               | ENV1227      |
| 38       | Lever            | ENV1222      | 83       | Spring            | EBH1312      |
| 39       | Head Base Unit   | EXA1152      | 84       | Arm               | ENC1212      |
| 40       | Tube             |              | 85       | Spring            | EBH1309      |
| 41       | Spring           | EBH1315      | 86       | Lever             | ENC1206      |
| 42       | Motor Unit       | EXA1162      | 87       | Spring            | EBH1309      |
| 43       | Screw            | PMS26P025FUC | 88       | Lever             | ENC1207      |
| 44       | Screw            | CBA1054      | 89       | .....             |              |
| 45       | P. C. Board      |              | 90       | Pinch Roller Unit | EXA1153      |

● Cassette Mechanism Assy

| Mark No. | Description | Part No.     |
|----------|-------------|--------------|
| 91       | .....       |              |
| 92       | Arm         | ENC1220      |
| 93       | Spring      | EBH1311      |
| 94       | Collar      | ELA1229      |
| 95       | Screw       | JGZ17P035FNI |
| 96       | Collar      | ELA1252      |

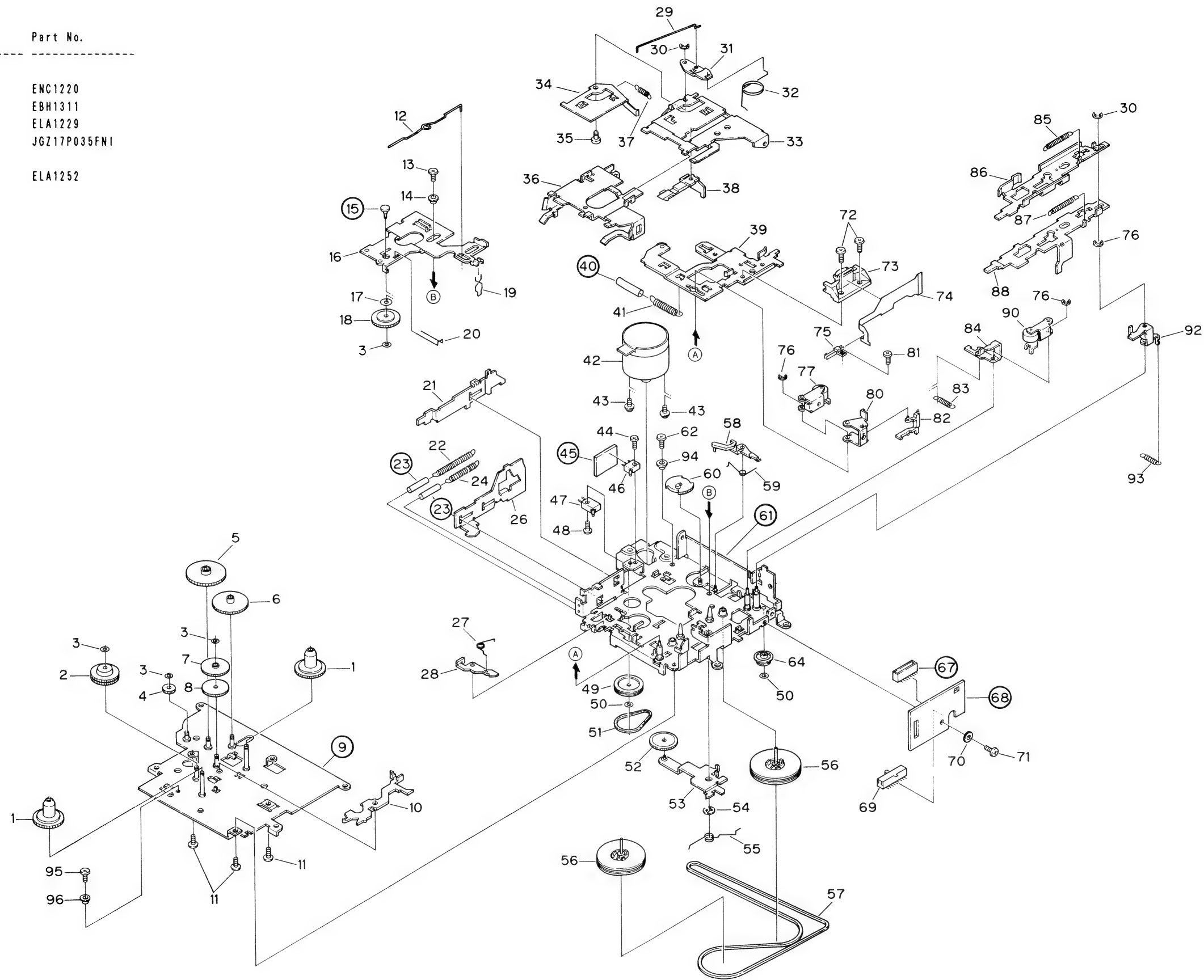


Fig. 23

## 23. ELECTRICAL PARTS LIST

## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

## Chip Resistor

RS1/8S□□□J, RS1/10S□□□J

## Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :  
Unit Name : Keyboard Unit(KE-2700SDK, 1700SDK/WG, KE-2730B, 1730B/EW)

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name     | Part No. |
|------|------|----------------------|------|---------------|----------|
| IL   | 901  | 902                  |      | Lamp 14V 40mA | CEL1013  |
| IL   | 903  |                      |      | Lamp 14V 40mA | CEL1168  |

Unit Number :  
Unit Name : Keyboard Unit(KE-2700B, 1700B/IT)

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name     | Part No. |
|------|------|----------------------|------|---------------|----------|
| IL   | 901  | 902                  |      | Lamp 14V 40mA | CEL-147  |
| IL   | 903  |                      |      | Lamp 14V 40mA | CEL1167  |

Unit Number :  
Unit Name : P.C. Board (A)

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name        | Part No. |
|------|------|----------------------|------|------------------|----------|
| S    | 2    |                      |      | Switch (FWD/REV) | ESH1003  |

Unit Number :  
Unit Name : P.C. Board (B)

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name         | Part No. |
|------|------|----------------------|------|-------------------|----------|
| S    | 3    |                      |      | Switch (TAPE/TUN) | ESH1004  |
| S    | 4    |                      |      | Switch (MUTE)     | CSN1005  |

## Miscellaneous Parts List

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name     | Part No. |
|------|------|----------------------|------|---------------|----------|
| S    | 1    |                      |      | Switch (MUTE) | ESN1005  |
| M    | 1    |                      |      | Motor Unit    | EXA1162  |
| HD   | 1    |                      |      | Head Unit     | EXA1163  |

|  |
|--|
| Tuner Amp Unit                         |
| Consists of                            |
| • SDK P.C. Board (KE-2700SDK, 1700SDK) |
| • Tuner Amp P.C. Board                 |

Unit Number :  
Unit Name : Tuner Amp Unit (KE-2700SDK/WG)

## MISCELLANEOUS

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name | Part No. |
|------|------|----------------------|------|-----------|----------|
| IC   | 1    |                      |      |           | PAC001A  |
| IC   | 251  |                      |      |           | LA3161P  |
| IC   | 551  |                      |      |           | TA7281P  |
| IC   | 701  |                      |      |           | LA2220   |
| IC   | 702  |                      |      |           | TA7555BS |

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name | Part No. |
|------|------|----------------------|------|-----------|----------|
| T    | 201  |                      |      | Coil      | CTB1056  |
| T    | 202  |                      |      | Coil      | CTB1008  |
| T    | 203  | 204                  |      | Coil      | CTB1058  |
| T    | 205  |                      |      | Coil      | CTE1041  |
| T    | 206  |                      |      | Coil      | CTE1042  |

|    |     |    |  |                 |          |
|----|-----|----|--|-----------------|----------|
| T  | 210 |    |  | Coil            | CTB1061  |
| CF | 1   |    |  | Ceramic Filter  | CTF-182  |
| CF | 51  | 52 |  | Ceramic Filter  | CTF1130  |
| CF | 201 |    |  | Filter          | CTF1085  |
| H  | 1   |    |  | Surge Protector | DSP-201M |

|    |     |  |  |                      |            |
|----|-----|--|--|----------------------|------------|
| X  | 151 |  |  | Ceramic Resonator    | CSS1066    |
| X  | 702 |  |  | Ceramic Resonator    | CSS1022    |
| X  | 951 |  |  | Crystal Resonator    | CSS1011    |
| VR | 151 |  |  | Semi-fixed 150kΩ (B) | VRMB6VS154 |
| VR | 152 |  |  | Semi-fixed 33kΩ (B)  | VRMB6VS333 |

|    |     |     |  |  |            |
|----|-----|-----|--|--|------------|
| VR | 451 | 452 |  | Volume 20kΩ (U)                        | CCS1164    |
| VR | 453 |     |  | Volume/Switch 200Ω, 50kΩ (G), 20kΩ (B) | CCS1163    |
| VR | 701 |     |  | Semi-fixed 220Ω (B)                    | VRMB6VS221 |
| B  | 951 |     |  | Battery                                | CEX1014    |
|    |     |     |  | LCD                                    | CAW1097    |

## RESISTORS

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name | Part No. |
|------|------|----------------------|------|-----------|----------|
| R    | 1    | 3                    | 5    | 706       | 736      |
| R    | 2    |                      |      |           |          |
| R    | 4    | 459                  | 460  |           |          |
| R    | 6    | 479                  | 962  |           |          |
| R    | 8    |                      |      |           |          |

|   |   |     |     |  |  |
|---|---|-----|-----|--|--|
| R | 1 |     |     |  |  |
| R | 2 |     |     |  |  |
| R | 4 | 459 | 460 |  |  |
| R | 6 | 479 | 962 |  |  |
| R | 8 |     |     |  |  |

|   |    |     |     |     |     |
|---|----|-----|-----|-----|-----|
| R | 9  |     |     |     |     |
| R | 10 | 157 | 201 | 202 | 714 |
| R | 13 |     |     |     |     |
| R | 14 |     |     |     |     |
| R | 15 |     |     |     |     |

|   |    |     |     |  |  |
|---|----|-----|-----|--|--|
| R | 16 |     |     |  |  |
| R | 17 |     |     |  |  |
| R | 18 | 465 | 466 |  |  |
| R | 20 |     |     |  |  |
| R | 21 |     |     |  |  |

|   |    |     |     |     |  |
|---|----|-----|-----|-----|--|
| R | 22 |     |     |     |  |
| R | 23 |     |     |     |  |
| R | 24 |     |     |     |  |
| R | 25 | 223 | 702 |     |  |
| R | 26 | 204 | 219 | 963 |  |

|   |    |     |  |  |  |
|---|----|-----|--|--|--|
| R | 51 |     |  |  |  |
| R | 52 |     |  |  |  |
| R | 53 | 480 |  |  |  |
| R | 54 |     |  |  |  |
| R | 55 | 722 |  |  |  |

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| R | 56  | 353 | 354 | 724 |     |
| R | 57  | 210 | 451 | 701 | 713 |
| R | 58  |     |     |     |     |
| R | 59  |     |     |     |     |
| R | 101 |     |     |     |     |

|   |     |  |  |  |  |
|---|-----|--|--|--|--|
| R | 102 |  |  |  |  |
| R | 103 |  |  |  |  |
| R | 104 |  |  |  |  |
| R | 105 |  |  |  |  |
| R | 153 |  |  |  |  |

|   |     |     |  |  |  |
|---|-----|-----|--|--|--|
| R | 154 |     |  |  |  |
| R | 155 | 718 |  |  |  |
| R | 156 |     |  |  |  |
| R | 158 |     |  |  |  |
| R | 159 |     |  |  |  |

|   |     |     |  |  |  |
|---|-----|-----|--|--|--|
| R | 154 |     |  |  |  |
| R | 155 | 718 |  |  |  |
| R | 156 |     |  |  |  |
| R | 158 |     |  |  |  |
| R | 159 |     |  |  |  |

## CAPACITORS

| Mark | ==== | Circuit Symbol & No.      | ==== | Part Name    | Part No. |
|------|------|---------------------------|------|--------------|----------|
| C    | 1    | 3 17 56 203               |      | CCSQCH220J50 |          |
| C    | 2    | 53 58 205 226 710 902     |      | CKSQYF473Z50 |          |
| C    | 4    | 25 469 470                |      | CCSQCH330J50 |          |
| C    | 5    | 207 209                   |      | CCSQTH090D50 |          |
| C    | 6    |                           |      | CCSQTH070D50 |          |
| C    | 7    | 202 706 717               |      | CKSQYB222K50 |          |
| C    | 8    | 22                        |      | CKSQYB223K50 |          |
| C    | 9    |                           |      | CCSQTH150J50 |          |
| C    | 10   |                           |      | CCSQSL271J50 |          |
| C    | 11   |                           |      | CKSQYB103K50 |          |
| C    | 12   |                           |      | CCSQCH470J50 |          |
| C    | 13   | 224                       |      | CEA3R3M50LS  |          |
| C    | 14   |                           |      | CKSQYB102K50 |          |
| C    | 15   |                           |      | CCSQCH080D50 |          |
| C    | 16   |                           |      | CCSQCH100D50 |          |
| C    | 18   |                           |      | CCSQCH120J50 |          |
| C    | 19   | 101 164 201 502           |      | CKSQYB103K50 |          |
| C    | 20   |                           |      | CKSQYF104Z50 |          |
| C    | 21   | 23                        |      | CKSQYB393K50 |          |
| C    | 24   |                           |      | CCSQCH470J50 |          |
| C    | 27   | 52 912                    |      | CEA101M10LS  |          |
| C    | 51   | 54 59 105 154 204 216 227 |      | CKSQYB223K50 |          |
| C    | 55   | 155 156 157               |      | CEA010M50LS2 |          |
| C    | 57   |                           |      | CEAR47M50LS2 |          |
| C    | 60   |                           |      | CCDLH910J50  |          |
| C    | 61   | 954                       |      | CKSQYB473K50 |          |
| C    | 102  | 206 563 707 713 724       |      | CEA470M16LS  |          |
| C    | 103  |                           |      | CKSQYB182K50 |          |
| C    | 104  |                           |      | CKSQYB682K50 |          |
| C    | 106  |                           |      | CKSQYB102K50 |          |
| C    | 151  | 152                       |      | CKSQYB183J50 |          |
| C    | 153  |                           |      | CKSQYB332K50 |          |
| C    | 158  |                           |      | CEAR22M50LS2 |          |
| C    | 159  |                           |      | CEA0R1M50LS2 |          |
| C    | 161  | 451 452 467 704 714       |      | CEA100M16LS2 |          |
| C    | 162  | 163                       |      | CKSQYB152K50 |          |
| C    | 165  |                           |      | CKSQYB102K50 |          |
| C    | 208  |                           |      | CCSQCH010C50 |          |
| C    | 217  |                           |      | CCSQRH101J50 |          |
| C    | 218  |                           |      | CCSQUJ180J50 |          |
| C    | 222  | 455 456                   |      | CEAR47M50LS2 |          |
| C    | 225  | 232 711 722               |      | CKSQYB473K25 |          |
| C    | 228  | 705                       |      | CEA220M16LS  |          |
| C    | 229  | 230 701 709               |      | CKSQYB223K50 |          |
| C    | 231  |                           |      | QCPA431G2A   |          |
| C    | 251  | 252                       |      | CKSQYB102K50 |          |
| C    | 253  | 254 957                   |      | CEA2R2M50LS2 |          |
| C    | 255  |                           |      | CEA470M10LS  |          |
| C    | 256  | 262 557 558               |      | CEA470M10L2  |          |
| C    | 257  | 258                       |      | CKSQYB103K50 |          |
| C    | 261  | 555 556                   |      | CEA221M10L2  |          |
| C    | 351  | 352                       |      | CEA100M16L2  |          |
| C    | 353  |                           |      | CEA47M35L2   |          |
| C    | 453  | 454                       |      | CEA0R1M50LS2 |          |
| C    | 457  | 458                       |      | CKSQYB153K50 |          |
| C    | 459  | 460                       |      | CKSQYB393K25 |          |
| C    | 461  | 462                       |      | CEALNP2R2M35 |          |
| C    | 463  | 464                       |      | CEAR22M50L2  |          |
| C    | 465  | 466                       |      | CKSQYB152K50 |          |
| C    | 468  |                           |      | CEA010M50LS2 |          |

Mark ===== Circuit Symbol &amp; No. ===== Part Name Part No.

|   |             |                 |              |
|---|-------------|-----------------|--------------|
| C | 503         | 4.7 $\mu$ F/16V | CCH1005      |
| C | 551 552     |                 | CKSQYB102K50 |
| C | 553 554     |                 | CEA010M50L2  |
| C | 559 560 565 |                 | CQEA224J63   |
| C | 561 562     |                 | CEA102M10L2  |
| C | 564         |                 | CEA471M16L2  |
| C | 702 703     |                 | CKSQYB391K50 |
| C | 708         |                 | CCSQSL271J50 |
| C | 712         |                 | CEA010M50LS2 |
| C | 715 716     |                 | QOMA102J50   |
| C | 718         |                 | QOMA683J50   |
| C | 719         |                 | CEAR33M50LS2 |
| C | 720 721     |                 | QOMA473J50   |
| C | 723         |                 | CEA471M16L2  |
| C | 901         |                 | CEA222M16L2  |
| C | 903         |                 | CEA331M16L2  |
| C | 911         |                 | CEA331M16L2  |
| C | 921         |                 | CCSQSL101J50 |
| C | 922         |                 | CKDYB391K50  |
| C | 923 924 925 |                 | CKPYF223Z25L |
| C | 926 927     |                 | CKPYF223Z25L |
| C | 951 952     |                 | CCSQCH100D50 |
| C | 955         |                 | CKSQYF473Z50 |
| C | 956         |                 | CEA331M6R3L2 |
| C | 958         |                 | CEA220M16LS  |

Tuner Amp Unit  
MISCELLANEOUS

|                          | KE-2700SDK/WG | KE-2730B/EW | KE-2700B/IT |
|--------------------------|---------------|-------------|-------------|
| Circuit Symbol & No.     | Part No.      | Part No.    | Part No.    |
| IC701                    | LA2220        | .....       | .....       |
| IC702                    | TA755585      | .....       | .....       |
| Q203, 204, 205, 206, 207 | .....         | 2SC2458     | .....       |
| Q504                     | .....         | DTC143ES    | .....       |
| Q505                     | .....         | DTC124ES    | .....       |
| Q701, 702, 705           | 2SC2458       | .....       | .....       |
| Q703                     | 2SK30A        | .....       | .....       |
| Q704                     | 2SA104B       | .....       | .....       |
| Q706                     | 2SC2634MC     | .....       | .....       |
| Q707                     | 2SC2712       | .....       | .....       |
| Q708                     | DTC124ES      | .....       | .....       |
| Q913                     | DTC143ES      | DTC124ES    | DTC124ES    |
| D457                     | .....         | 1SS133      | 1SS133      |
| D701, 702, 951, 966, 969 | 1SS133        | .....       | 1SS133      |
| D953                     | .....         | .....       | 1SS133      |
| L701                     | LAUR68M       | .....       | .....       |
| T202                     | CTB100B       | CTB100A     | CTB100B     |
| T207                     | .....         | CTB1059     | .....       |
| T208, 209                | .....         | CTB1062     | .....       |
| T210                     | CTB1061       | CTB1060     | CTB1061     |
| X702                     | CSS1022       | .....       | .....       |
| VR701                    | VRMBVS221     | .....       | .....       |

## RESISTORS

|                      | KE-2700SDK/WG | KE-2730B/EW  | KE-2700B/IT  |
|----------------------|---------------|--------------|--------------|
| Circuit Symbol & No. | Part No.      | Part No.     | Part No.     |
| R206, 207, 215       | .....         | RD1/4PS474JL | .....        |
| R208, 209, 213, 218  | .....         | RD1/4PS561JL | .....        |
| R212                 | .....         | RD1/4PS104JL | .....        |
| R214                 | .....         | RS1/10S821J  | .....        |
| R216, 217            | .....         | RS1/10S474J  | .....        |
| R224                 | RS1/10S0R0J   | .....        | RS1/10S0R0J  |
| R463, 464            | RS1/BS132J    | RS1/BS122J   | RS1/BS122J   |
| R476                 | RS1/10S2R2J   | RS1/10S0R0J  | RS1/10S0R0J  |
| R481                 | RD1/4PS102JL  | RD1/4PS222JL | RD1/4PS222JL |
| R485                 | RD1/4PS102JL  | .....        | .....        |



|                      | KE-2700SDK/WG | KE-2730B/EW  | KE-2700B/IT  |
|----------------------|---------------|--------------|--------------|
| Circuit Symbol & No. | Part No.      | Part No.     | Part No.     |
| R501                 | RD1/4PS472JL  | RD1/4PS222JL | RD1/4PS472JL |
| R502                 | .....         | RD1/4PS222JL | .....        |
| R507                 | .....         | RD1/4PS331JL | .....        |
| R701, 713, 719, 729  | RS1/10S473J   | .....        | .....        |
| R702                 | RS1/10S472J   | .....        | .....        |
| R703, 704, 705, 717  | RS1/10S104J   | .....        | .....        |
| R706, 736            | RS1/10S223J   | .....        | .....        |
| R707                 | RS1/10S181J   | .....        | .....        |
| R708, 710, 711, 734  | RS1/10S102J   | .....        | .....        |
| R709, 732            | RD1/4PS223JL  | .....        | .....        |
| R712                 | RS1/10S561J   | .....        | .....        |
| R714, 716, 728       | RS1/10S103J   | .....        | .....        |
| R715, 955            | RD1/4PS472JL  | .....        | .....        |
| R718                 | RS1/10S182J   | .....        | .....        |
| R720                 | RS1/10S222J   | .....        | .....        |
| R721                 | RS1/10S0R0J   | .....        | .....        |
| R722                 | RS1/10S682J   | .....        | .....        |
| R723                 | RD1/4PS152JL  | .....        | .....        |
| R724                 | RD1/4PS153JL  | .....        | .....        |
| R725, 727            | RS1/10S0R0J   | .....        | .....        |
| R726                 | RS1/10S564J   | .....        | .....        |
| R730                 | RS1/10S823J   | .....        | .....        |
| R731                 | RS1/10S123J   | .....        | .....        |
| R735                 | RS1/8S223J    | .....        | .....        |
| R737                 | RS1/8S473J    | .....        | .....        |
| R738                 | RS1/8S103J    | .....        | .....        |
| R739                 | RS1/10S104J   | .....        | .....        |
| R955                 | .....         | RD1/4PS473JL | RD1/4PS473JL |
| R967                 | RS1/10S103J   | RS1/10S0R0J  | RS1/10S0R0J  |

## CAPACITORS

|                      | KE-2700SDK/WG | KE-2730B/EW  | KE-2700B/IT  |
|----------------------|---------------|--------------|--------------|
| Circuit Symbol & No. | Part No.      | Part No.     | Part No.     |
| C165                 | CKSQYB102K50  | .....        | .....        |
| C210, 211, 220, 221  | .....         | CKSQYF473Z50 | .....        |
| C212                 | .....         | CCSQRH101J50 | .....        |
| C213                 | .....         | CCSQCH180J50 | .....        |
| C214                 | .....         | CQPA331G2A   | .....        |
| C215                 | .....         | CCSQRH820J50 | .....        |
| C217                 | CCSQRH101J50  | CKSQYB223K50 | CCSQRH101J50 |
| C219                 | .....         | CCSQSH390J50 | .....        |
| C231                 | CQPA431G2A    | .....        | CQPA431G2A   |
| C501                 | .....         | CEAR47M50LS2 | .....        |
| C701, 709            | CKSQYB223K50  | .....        | .....        |
| C702, 703            | CKSQYB391K50  | .....        | .....        |
| C704, 714            | CEA100M16LS2  | .....        | .....        |
| C705                 | CEA220M16LS   | .....        | .....        |
| C706, 717            | CKSQYB222K50  | .....        | .....        |
| C707, 713, 724       | CEA470M16LS   | .....        | .....        |
| C708                 | CCSQSL271J50  | .....        | .....        |
| C710                 | CKSQYF473Z50  | .....        | .....        |
| C711, 722            | CKSQYB473K25  | .....        | .....        |
| C712                 | CEA100M50LS2  | .....        | .....        |
| C715, 716            | COMA102J50    | .....        | .....        |
| C718                 | COMA683J50    | .....        | .....        |
| C719                 | CEAR33M50LS2  | .....        | .....        |
| C720, 721            | COMA473J50    | .....        | .....        |
| C723                 | CEA471M16L2   | .....        | .....        |
| C903                 | CEA331M16L2   | CEA102M16L2  | CEA102M16L2  |
| C921                 | CCSQSL101J50  | .....        | CCSQSL101J50 |
| C922                 | CKDYB391K50   | .....        | CKDYB391K50  |
| C923, 924, 925       | CKPYF223Z25L  | .....        | CKPYF223Z25L |
| C926, 927            | CKPYF223Z25L  | .....        | CKPYF223Z25L |
| C953                 | .....         | CKSQYF473Z50 | CKSQYF473Z50 |
| C957                 | CEA2R2M50LS2  | .....        | .....        |
| C958                 | CEA220M16LS   | .....        | .....        |

Unit Number :  
Unit Name : Tuner Amp Unit (KE-1700SDK/WG)

## MISCELLANEOUS

| Mark | ===== | Circuit Symbol & No.            | ==== | Part Name                   | Part No.   |
|------|-------|---------------------------------|------|-----------------------------|------------|
| IC   | 1     |                                 |      |                             | PAC001A    |
| IC   | 251   |                                 |      |                             | LA3161P    |
| IC   | 551   |                                 |      |                             | TA7281P    |
| IC   | 701   |                                 |      |                             | LA2220     |
| IC   | 702   |                                 |      |                             | TA7555BS   |
| IC   | 951   |                                 |      |                             | PD4275     |
| Q    | 1     |                                 |      | Chip Transistor             | 3SK195     |
| Q    | 2     |                                 |      |                             | 2SC2999    |
| Q    | 3     | 704                             |      |                             | 2SA1048    |
| Q    | 151   |                                 |      | Chip Transistor             | 2SC2712    |
| Q    | 152   |                                 |      | Chip Transistor             | DTA124EX   |
| Q    | 153   | 501                             |      | Chip Transistor             | DTC114EX   |
| Q    | 201   |                                 |      |                             | 2SK435     |
| Q    | 202   | 503 522 701 702 705             |      |                             | 2SC2458    |
| Q    | 251   |                                 |      |                             | 2SD1992A   |
| Q    | 455   | 456                             |      |                             | DTC343TS   |
| Q    | 457   | 708                             |      |                             | DTC124ES   |
| Q    | 502   |                                 |      |                             | 2SK330     |
| Q    | 703   |                                 |      |                             | 2SK30A     |
| Q    | 706   |                                 |      |                             | 2SC2634NC  |
| Q    | 707   |                                 |      |                             | 2SC2712    |
| Q    | 911   |                                 |      |                             | 2SD1684    |
| Q    | 912   |                                 |      |                             | MA1150     |
| Q    | 913   |                                 |      |                             | DTC143ES   |
| Q    | 951   |                                 |      |                             | DTC114ES   |
| Q    | 952   |                                 |      |                             | DTA124ES   |
| D    | 1     |                                 |      | Chip Diode                  | 1SV128A-BB |
| D    | 2     | 3 4                             |      | Variable Capacitance Diode  | SVC203-AB  |
| D    | 5     |                                 |      | Chip Diode                  | MA157-MR   |
| D    | 151   |                                 |      |                             | HZS4R3EB3  |
| D    | 201   | 202 203 204 251                 |      |                             | 1SS133     |
| D    | 205   |                                 |      | Variable Capacitance Diode  | KV123523   |
| D    | 252   | 911                             |      |                             | RD9R1JSB2  |
| D    | 451   | 452 453 454 456 458 459 701 702 |      |                             | 1SS133     |
| D    | 501   |                                 |      |                             | RD3R0ESB2  |
| D    | 901   | 902                             |      |                             | ERA15-02Y1 |
| D    | 951   | 958 959 960 962 963 966 969     |      |                             | 1SS133     |
| D    | 961   |                                 |      |                             | RD5R6JSB2  |
| D    | 964   |                                 |      |                             | MA700      |
| D    | 965   |                                 |      |                             | RD5R1JSB2  |
| D    | 967   |                                 |      |                             | RD8R2JSB1  |
| L    | 1     |                                 |      | Inductor 0.12 $\mu$ H       | CTF1065    |
| L    | 2     |                                 |      | Coil                        | CTC1022    |
| L    | 3     |                                 |      | Coil                        | CTC1020    |
| L    | 4     |                                 |      | Coil                        | CTC1056    |
| L    | 5     |                                 |      | OSC Coil                    | CTC1024    |
| L    | 6     |                                 |      | Inductor 15 $\mu$ H         | LAU150K    |
| L    | 201   |                                 |      | Ferri-Inductor 4.7 $\mu$ H  | LAU4R7K    |
| L    | 202   |                                 |      | Ferri-Inductor 33 $\mu$ H   | LAU330K    |
| L    | 203   |                                 |      | Ferri-Inductor 4.7 $\mu$ H  | CTF-151    |
| L    | 701   |                                 |      | Micro-Inductor 0.68 $\mu$ H | LAUR68M    |
| L    | 901   |                                 |      | Choke Coil                  | CTH1084    |
| L    | 951   |                                 |      | Ferri-Inductor 100 $\mu$ H  | LAU101K    |
| T    | 1     |                                 |      | Coil                        | CTC1064    |
| T    | 51    |                                 |      | Coil                        | CTC1060    |

| Mark | ==== | Circuit Symbol & No. | ==== | Part Name              | Part No.   | Mark | ==== | Circuit Symbol & No.    | ==== | Part Name | Part No.     |
|------|------|----------------------|------|------------------------|------------|------|------|-------------------------|------|-----------|--------------|
| T    | 201  |                      |      | Coil                   | CTB1056    | R    | 154  |                         |      |           | RS1/10S332J  |
| T    | 202  |                      |      | Coil                   | CTB1008    | R    | 155  | 718                     |      |           | RS1/10S182J  |
| T    | 203  | 204                  |      | Coil                   | CTB1058    | R    | 156  |                         |      |           | RS1/10S684J  |
| T    | 205  |                      |      | Coil                   | CTE1041    | R    | 158  |                         |      |           | RS1/10S682J  |
| T    | 206  |                      |      | Coil                   | CTE1042    | R    | 159  |                         |      |           | RS1/10S333J  |
| T    | 210  |                      |      | Coil                   | CTB1061    | R    | 160  |                         |      |           | RS1/10S103J  |
| CF   | 1    |                      |      | Ceramic Filter         | CTF-182    | R    | 203  |                         |      |           | RD1/4PS513JL |
| CF   | 51   | 52                   |      | Ceramic Filter         | CTF1130    | R    | 205  |                         |      |           | RS1/10S510J  |
| CF   | 201  |                      |      | Filter                 | CTF1085    | R    | 211  |                         |      |           | RS1/10S103J  |
| H    | 1    |                      |      | Surge Protector        | DSP-201M   | R    | 220  |                         |      |           | RD1/4PS752JL |
| X    | 151  |                      |      | Ceramic Resonator      | CSS1066    | R    | 221  |                         |      |           | RS1/10S104J  |
| X    | 702  |                      |      | Ceramic Resonator      | CSS1022    | R    | 222  |                         |      |           | RD1/4PS220JL |
| X    | 951  |                      |      | Crystal Resonator      | CSS1011    | R    | 224  | 456 461 462 473 474 478 |      |           | RS1/10S0R0J  |
| VR   | 151  |                      |      | Semi-fixed 150kΩ (B)   | VRMB6VS154 | R    | 251  | 252                     |      |           | RS1/10S513J  |
| VR   | 152  |                      |      | Semi-fixed 33kΩ (B)    | VRMB6VS333 | R    | 253  | 254 703 704 705 717 739 |      |           | RS1/10S104J  |
| VR   | 451  |                      |      | Volume 20kΩ (A)        | CCS1166    | R    | 255  | 256                     |      |           | RS1/10S151J  |
| VR   | 452  |                      |      | Volume 50kΩ (G)        | CCS1165    | R    | 257  | 258                     |      |           | RS1/10S133J  |
| VR   | 453  |                      |      | Volume/Switch 20kΩ (B) | CCS1170    | R    | 259  | 260                     |      |           | RS1/10S334J  |
| VR   | 701  |                      |      | Semi-fixed 220Ω (B)    | VRMB6VS221 | R    | 262  |                         |      |           | RS1/10S392J  |
| B    | 951  |                      |      | Battery                | CEX1014    | R    | 263  | 490 492                 |      |           | RS1/8S0R0J   |
|      |      |                      |      | LCD                    | CAW1097    | R    | 351  | 352                     |      |           | RD1/4PS332JL |
|      |      |                      |      |                        |            | R    | 355  | 503 506                 |      |           | RD1/4PS102JL |
|      |      |                      |      |                        |            | R    | 453  |                         |      |           | RD1/4PS272JL |
|      |      |                      |      |                        |            | R    | 454  |                         |      |           | RS1/10S272J  |
|      |      |                      |      |                        |            | R    | 467  | 468                     |      |           | RD1/4PS562JL |
|      |      |                      |      |                        |            | R    | 469  | 470                     |      |           | RS1/8S222J   |
|      |      |                      |      |                        |            | R    | 471  |                         |      |           | RS1/8S222J   |
|      |      |                      |      |                        |            | R    | 472  |                         |      |           | RS1/8S222J   |
|      |      |                      |      |                        |            | R    | 476  |                         |      |           | RS1/10S2R7J  |
|      |      |                      |      |                        |            | R    | 477  |                         |      |           | RS1/10S333J  |
|      |      |                      |      |                        |            | R    | 481  | 485                     |      |           | RD1/4PS102JL |
|      |      |                      |      |                        |            | R    | 482  |                         |      |           | RD1/4PS392JL |
|      |      |                      |      |                        |            | R    | 486  | 489 499 553 554 558 721 |      |           | RS1/10S0R0J  |
|      |      |                      |      |                        |            | R    | 501  | 504 715 955 966         |      |           | RD1/4PS472JL |
|      |      |                      |      |                        |            | R    | 505  | 723                     |      |           | RD1/4PS152JL |
|      |      |                      |      |                        |            | R    | 551  | 552                     |      |           | RS1/10S182J  |
|      |      |                      |      |                        |            | R    | 555  | 556                     |      |           | RS1/10S153J  |
|      |      |                      |      |                        |            | R    | 557  |                         |      |           | RD1/4PS010JL |
|      |      |                      |      |                        |            | R    | 559  |                         |      |           | RS1/10S682J  |
|      |      |                      |      |                        |            | R    | 707  |                         |      |           | RS1/10S181J  |
|      |      |                      |      |                        |            | R    | 708  | 710 711 734             |      |           | RS1/10S102J  |
|      |      |                      |      |                        |            | R    | 709  | 732                     |      |           | RD1/4PS223JL |
|      |      |                      |      |                        |            | R    | 712  |                         |      |           | RS1/10S561J  |
|      |      |                      |      |                        |            | R    | 720  |                         |      |           | RS1/10S222J  |
|      |      |                      |      |                        |            | R    | 725  | 727                     |      |           | BS1/10S0R0J  |
|      |      |                      |      |                        |            | R    | 726  |                         |      |           | RS1/10S564J  |
|      |      |                      |      |                        |            | R    | 730  |                         |      |           | BS1/10S823J  |
|      |      |                      |      |                        |            | R    | 731  |                         |      |           | RS1/10S123J  |
|      |      |                      |      |                        |            | R    | 735  |                         |      |           | RS1/8S223J   |
|      |      |                      |      |                        |            | R    | 737  |                         |      |           | RS1/8S473J   |
|      |      |                      |      |                        |            | R    | 738  |                         |      |           | RS1/8S103J   |
|      |      |                      |      |                        |            | R    | 901  |                         |      |           | RD1/2PS3R3JL |
|      |      |                      |      |                        |            | R    | 911  |                         |      |           | RS1/10S331J  |
|      |      |                      |      |                        |            | R    | 912  |                         |      |           | RS1/10S221J  |
|      |      |                      |      |                        |            | R    | 913  | 967                     |      |           | RS1/10S103J  |
|      |      |                      |      |                        |            | R    | 914  | 959                     |      |           | RS1/10S222J  |
|      |      |                      |      |                        |            | R    | 951  |                         |      |           | RD1/4PS471JL |
|      |      |                      |      |                        |            | R    | 953  |                         |      |           | RS1/10S331J  |
|      |      |                      |      |                        |            | R    | 956  |                         |      |           | RD1/4PS473JL |
|      |      |                      |      |                        |            | R    | 960  |                         |      |           | RD1/4PS222JL |
|      |      |                      |      |                        |            | R    | 961  |                         |      |           | RD1/4PS333JL |
|      |      |                      |      |                        |            | R    | 964  |                         |      |           | RD1/4PS331JL |

## CAPACITORS

| Mark | ==== | Circuit Symbol & No.      | ==== | Part Name    | Part No. |
|------|------|---------------------------|------|--------------|----------|
| C    | 1    | 3 17 56 203               |      | CCSQCH220J50 |          |
| C    | 2    | 53 58 205 226 710 902     |      | CKSQYF473Z50 |          |
| C    | 4    | 25                        |      | CCSQCH330J50 |          |
| C    | 5    | 207 209                   |      | CCSQTH090D50 |          |
| C    | 6    |                           |      | CCSQTH070D50 |          |
| C    | 7    | 202 706 717               |      | CKSQYB222K50 |          |
| C    | 8    | 22                        |      | CKSQYB223K50 |          |
| C    | 9    |                           |      | CCSQTH150J50 |          |
| C    | 10   |                           |      | CCSQSL271J50 |          |
| C    | 11   |                           |      | CKSQYB103K50 |          |
| C    | 12   |                           |      | CCSQCH470J50 |          |
| C    | 13   | 224                       |      | CEA3R3M50LS  |          |
| C    | 14   |                           |      | CKSQYB102K50 |          |
| C    | 15   |                           |      | CCSQCH080D50 |          |
| C    | 16   |                           |      | CCSQCH100D50 |          |
| C    | 18   |                           |      | CCSQCH120J50 |          |
| C    | 19   | 101 164 201 502           |      | CKSQYB103K50 |          |
| C    | 20   |                           |      | CKSQYF104Z50 |          |
| C    | 21   | 23                        |      | CKSQYB393K50 |          |
| C    | 24   |                           |      | CCSQCH470J50 |          |
| C    | 27   | 52 912                    |      | CEA101M10LS  |          |
| C    | 51   | 54 59 105 154 204 216 227 |      | CKSQYB223K50 |          |
| C    | 55   | 155 156 157               |      | CEA010M50LS2 |          |
| C    | 57   |                           |      | CEAR47M50LS2 |          |
| C    | 60   |                           |      | CCDLH910J50  |          |
| C    | 61   | 954                       |      | CKSQYB473K50 |          |
| C    | 102  | 206 563 707 713 724       |      | CEA470M16LS  |          |
| C    | 103  |                           |      | CKSQYB182K50 |          |
| C    | 104  |                           |      | CKSQYB682K50 |          |
| C    | 106  |                           |      | CKSQYB102K50 |          |
| C    | 151  | 152                       |      | CKSQYB183J50 |          |
| C    | 153  |                           |      | CKSQYB332K50 |          |
| C    | 158  |                           |      | CEAR22M50LS2 |          |
| C    | 159  |                           |      | CEA0R1M50LS2 |          |
| C    | 161  | 467                       |      | CEA100M16LS2 |          |
| C    | 162  | 163                       |      | CKSQYB152K50 |          |
| C    | 165  |                           |      | CKSQYB102K50 |          |
| C    | 208  |                           |      | CCSQCH010C50 |          |
| C    | 217  |                           |      | CCSQRH101J50 |          |
| C    | 218  |                           |      | CCSQUJ180J50 |          |
| C    | 222  |                           |      | CEAR47M50LS2 |          |
| C    | 225  | 232                       |      | CKSQYB473K25 |          |
| C    | 228  | 705                       |      | CEA220M16LS  |          |
| C    | 229  | 230 701 709               |      | CKSQYB223K50 |          |
| C    | 231  |                           |      | CQPA431G2A   |          |
| C    | 251  | 252                       |      | CKSQYB102K50 |          |
| C    | 253  | 254 957                   |      | CEA2R2M50LS2 |          |
| C    | 255  |                           |      | CEA470M10LS  |          |
| C    | 256  | 262 557 558               |      | CEA470M10L2  |          |
| C    | 257  | 258                       |      | CKSQYB103K50 |          |
| C    | 261  | 555 556                   |      | CEA221M10L2  |          |
| C    | 351  | 352 704 714               |      | CEA100M16L2  |          |
| C    | 353  |                           |      | CEA4R7M35L2  |          |
| C    | 461  | 462                       |      | CEA2R2M50LS2 |          |
| C    | 463  | 464                       |      | CEAR22M50L2  |          |
| C    | 465  | 466                       |      | CKSQYB152K50 |          |
| C    | 468  |                           |      | CEA010M50LS2 |          |
| C    | 471  | 472                       |      | CKSQYB473K50 |          |
| C    | 503  |                           |      | CCH1005      |          |
| C    | 551  | 552                       |      | CKSQYB102K50 |          |

4.7  $\mu$ F/16V

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

|   |     |         |  |              |
|---|-----|---------|--|--------------|
| C | 553 | 554     |  | CEA010M50L2  |
| C | 559 | 560 565 |  | CQEA224J63   |
| C | 561 | 562     |  | CEA102M10L2  |
| C | 564 |         |  | CEA471M16L2  |
| C | 702 | 703     |  | CKSQYB391K50 |
| C | 708 |         |  | CCSQSL271J50 |
| C | 711 | 722     |  | CKSQYF473Z25 |
| C | 712 |         |  | CEA010M50LS2 |
| C | 715 | 716     |  | CQMA102J50   |
| C | 718 |         |  | CQMA683J50   |
| C | 719 |         |  | CEAR33M50LS2 |
| C | 720 | 721     |  | CQMA473J50   |
| C | 723 |         |  | CEA471M16L2  |
| C | 901 |         |  | CEA222M16L2  |
| C | 903 |         |  | CEA331M16L2  |
| C | 911 |         |  | CEA331M16L2  |
| C | 921 |         |  | CCSQSL101J50 |
| C | 922 |         |  | CKDYB391K50  |
| C | 923 | 924 925 |  | CKPYF223Z25L |
| C | 951 | 952     |  | CCSQCH100D50 |
| C | 955 |         |  | CKSQYF473Z50 |
| C | 956 |         |  | CEA331M6R3L2 |
| C | 958 |         |  | CEA220M16LS  |

Tuner Amp Unit  
MISCELLANEOUS

|                          | KE-1700SDK/WG | KE-1730B/EW | KE-1700B/IT |
|--------------------------|---------------|-------------|-------------|
| Circuit Symbol & No.     | Part No.      | Part No.    | Part No.    |
| IC701                    | LA2220        | .....       | .....       |
| IC702                    | TA7555BS      | .....       | .....       |
| Q203, 204, 205, 206, 207 | .....         | 2SC245B     | .....       |
| Q504                     | .....         | DTC143ES    | .....       |
| Q505                     | .....         | DTC124ES    | .....       |
| Q701, 702, 705           | 2SC245B       | .....       | .....       |
| Q703                     | 2SK30A        | .....       | .....       |
| Q704                     | 2SA1048       | .....       | .....       |
| Q706                     | 2SC2634MC     | .....       | .....       |
| Q707                     | 2SC2712       | .....       | .....       |
| Q708                     | DTC124ES      | .....       | .....       |
| Q913                     | DTC143ES      | DTC124ES    | DTC124ES    |
| Q457                     | .....         | 1SS133      | 1SS133      |
| D701, 702                | 1SS133        | .....       | .....       |
| D951, 966, 969           | 1SS133        | .....       | .....       |
| D953                     | .....         | .....       | 1SS133      |
| L701                     | LAUR68M       | .....       | .....       |
| T202                     | CTB1008       | CTB1004     | CTB1008     |
| T207                     | .....         | CTB1059     | .....       |
| T208, 209                | .....         | CTB1062     | .....       |
| T210                     | CTB1061       | CTB1060     | CTB1061     |
| X702                     | CSS1022       | .....       | .....       |
| VR701                    | VRMB6VS221    | .....       | .....       |

## RESISTORS

|                          | KE-1700SDK/WG | KE-1730B/EW  | KE-1700B/IT  |
|--------------------------|---------------|--------------|--------------|
| Circuit Symbol & No.     | Part No.      | Part No.     | Part No.     |
| R206, 207, 215           | .....         | RD1/4PS474JL | .....        |
| R208, 209, 213, 218      | .....         | RD1/4PS561JL | .....        |
| R212                     | .....         | RD1/4PS104JL | .....        |
| R214                     | .....         | RS1/10S821J  | .....        |
| R216, 217                | .....         | RS1/10S474J  | .....        |
| R224                     | RS1/10S0R0J   | .....        | RS1/10S0R0J  |
| R476                     | RS1/10S2R7J   | RS1/10S0R0J  | RS1/10S0R0J  |
| R481                     | RD1/4PS102JL  | RD1/4PS222JL | RD1/4PS222JL |
| R485                     | RD1/4PS102JL  | .....        | .....        |
| R501                     | RD1/4PS472JL  | RD1/4PS222JL | RD1/4PS472JL |
| R502                     | .....         | RD1/4PS222JL | .....        |
| R507                     | .....         | RD1/4PS331JL | .....        |
| R701, 713, 719, 729      | RS1/10S473J   | .....        | .....        |
| R702                     | RS1/10S472J   | .....        | .....        |
| R703, 704, 705, 717, 739 | RS1/10S104J   | .....        | .....        |
| R706, 736                | RS1/10S223J   | .....        | .....        |
| R735                     | RS1/8S223J    | .....        | .....        |
| R707                     | RS1/10S101J   | .....        | .....        |
| R708, 710, 711, 734      | RS1/10S102J   | .....        | .....        |
| R709, 732                | RD1/4PS223JL  | .....        | .....        |
| R712                     | RS1/10S561J   | .....        | .....        |
| R714, 716, 728           | RS1/10S103J   | .....        | .....        |
| R715                     | RD1/4PS472JL  | .....        | .....        |
| R718                     | RS1/10S102J   | .....        | .....        |
| R720                     | RS1/10S222J   | .....        | .....        |
| R721                     | RS1/10S0R0J   | .....        | .....        |
| R722                     | RS1/10S682J   | .....        | .....        |
| R723                     | RD1/4PS152JL  | .....        | .....        |
| R724                     | RD1/4PS153JL  | .....        | .....        |
| R725, 727                | RS1/10S0R0J   | .....        | .....        |
| R726                     | RS1/10S564J   | .....        | .....        |
| R730                     | RS1/10S823J   | .....        | .....        |
| R731                     | RS1/10S123J   | .....        | .....        |
| R737                     | RS1/8S473J    | .....        | .....        |
| R738                     | RS1/8S103J    | .....        | .....        |
| R955                     | RD1/4PS472JL  | RD1/4PS473JL | RD1/4PS473JL |
| R967                     | RS1/10S103J   | RS1/10S0R0J  | RS1/10S0R0J  |

## CAPACITORS

|                      | KE-1700SDK/WG | KE-1730B/EW  | KE-1700B/IT  |
|----------------------|---------------|--------------|--------------|
| Circuit Symbol & No. | Part No.      | Part No.     | Part No.     |
| C165                 | CKSOYB102K50  | .....        | .....        |
| C210, 211, 220, 221  | .....         | CKSOYF473Z50 | .....        |
| C212                 | .....         | CCSORH101J50 | .....        |
| C213                 | .....         | CCSOCH180J50 | .....        |
| C214                 | .....         | COPA331G2A   | .....        |
| C215                 | .....         | CCSORH820J50 | .....        |
| C217                 | CCSORH101J50  | CKSOYB223K50 | CCSORH101J50 |
| C219                 | .....         | CCSQSH390J50 | .....        |
| C231                 | COPA431G2A    | .....        | COPA431G2A   |
| C501                 | .....         | CEAR47M50LS2 | .....        |
| C701, 709            | CKSOYB223K50  | .....        | .....        |
| C702, 703            | CKSOYB391K50  | .....        | .....        |
| C704, 714            | CEA100M16L2   | .....        | .....        |
| C705                 | CEA220M16LS   | .....        | .....        |
| C706, 717            | CKSOYB222K50  | .....        | .....        |
| C707, 713, 724       | CEA470M16LS   | .....        | .....        |
| C708                 | CCSQSL271J50  | .....        | .....        |
| C710                 | CKSOYF473Z50  | .....        | .....        |
| C711, 722            | CKSOYF473Z25  | .....        | .....        |
| C712                 | CEA010M50LS2  | .....        | .....        |
| C715, 716            | CQMA102J50    | .....        | .....        |
| C718                 | CQMA683J50    | .....        | .....        |
| C719                 | CEAR33M50LS2  | .....        | .....        |
| C720, 721            | CQMA473J50    | .....        | .....        |
| C723                 | CEA471M16L2   | .....        | .....        |
| C903                 | CEA331M16L2   | CEA102M16L2  | CEA102M16L2  |
| C921                 | CCSQSL101J50  | .....        | CCSQSL101J50 |
| C922                 | CKDYB391K50   | .....        | CKDYB391K50  |
| C923, 924, 925       | CKPYF223Z25L  | .....        | CKPYF223Z25L |
| C953                 | .....         | CKSOYF473Z50 | CKSOYF473Z50 |
| C957                 | CEA2R2M50LS2  | .....        | .....        |
| C958                 | CEA220M16LS   | .....        | .....        |

